

Climatate

Client
Image
Management
and telecommunications

Software



Monet[®]

Contents

Confidential - Patent Application

TABLE OF CONTENTS

	Title Description	3
5	Inventors	3
	Description of the Issue Addressed	3
10	Detailed Description of the Invention	
	Index of Figures and Descriptions	4
	Figure Hierarchy Relationships	6
	Figures	7
15	Detailed description referring to Figures	30
	What Is Claimed	37
	Applicability of the Invention	
20	White Paper	41
	Market Uniqueness	47
	Prior Art	51
25	Supplemental Information to the Disclosure	
	See Media Asset Management Report	
	Supplemental Reference Appendix	
30	Typical Application Scenario - Amana Beta	
	Distributed Documents ver 1.8	
	Seybold San Francisco 1996	
35	Screen Captures - (See Separate Document)	
	Ver 1.8 - Completed and disclosed	
	Ver 2.5 - Under development and not disclosed	
	Beta and Technology Partner Non-Disclosure	

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Title Description: Digital Media Asset Management System

5 Inventors: Lowell Carlson, Rock, Island IL
John H. Jebens, Tierra Verde, FL
Jeff James, Tampa, FL

Specific
Application:

10 The CLIMATE[™] system provides a mechanism to
allow corporate clients to archive their digital assets
in a central repository either in-house or at a remote
central location. Once archived on the CLIMATE[™]
15 system, they can be called up for browsing by anyone
whom the client has authorized and equipped with a
phone modem. Twenty-four hour access makes it
easy for designated agencies, printers, and
communicators all over the world to locate the
20 images or documents they need and to compose
documents or print low resolution files for immediate
use. Clients and service providers browse, and print
low-re images simultaneously, at multiple locations ,
while maintaining the consistency and security of the
original digital files. Once client images or
25 documents are in the system, they can be easily
adapted for a wide variety of applications, such as
animation, large format printing, and multi-media
presentations or WEB publishing.

30 The principle benefits gained are the elimination of
re-shooting, re-scanning, and re-working digital
images or composed documents which have already
been digitally re-touched or color corrected.

35 CLIMATE[™] offers a simple menu-driven interface that
allows users to locate archived images or documents
with key words or catalog numbers. Activity reports
can be generated by the user if authorized as well as
editing of the data contained with the digital image or
document. Integrated hot-folding and job build and
40 pass round the features of the CLIMATE[™] system.

Monet[®]

Detailed Description

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Index and Brief Description of the Figures:

- 5 Refer to the overall figure and diagram relationship hierarchy following this index for the order in which each is related relative to the processing steps that occur throughout the system.

Brief Description of the Drawings

- 10 The features of the present invention which are believed to be novel are set forth with particularity in the appended claims. The invention, together with its objects and advantages thereof, may be best understood by reference to the following description taken in conjunction with the accompanying figures.

- 15 **Figure and Diagram Hierarchy** is a generalized diagram of a specific embodiment of the overall relationship of figures 1 through 4k of an overall digital media asset management system according to the invention.

Figure 1 is a generalized diagrammatic illustration of a specific embodiment of an overall digital media asset management system according to the invention.

- 20 Figure 2 is a generalized block diagram illustrating one specific embodiment of a digital media asset management system with further detail of each primary component group according to the invention.

Figure 3a is a generalized block diagram illustrating a specific embodiment of the overall functional process flow of a digital media asset management system according to the invention.

- 25 Figure 3b is a detailed block diagram illustrating an embodiment of the specific processing function groups relating the operational process flow of a digital media asset management system according to the invention.

- 30 Figure 4 is a detailed block diagram illustrating an embodiment of the overall relationship of figures 4a through 4k which detail specific functions and processes within the digital media asset management system according to the invention.

Figure 4a is a flow diagram illustrating the processing methodology and structural flow for input of data files originating by a user for a specific embodiment of the digital media asset management system according to the invention.

- 35 Figure 4b is a flow diagram illustrating the processing methodology and structural flow for data files received by the host processing system and the disposition of the files' related data for a specific embodiment of the digital media asset management system according to the invention.

Figure 4c is a flow diagram illustrating the processing methodology and

structural flow for new file processing, duplicate entry control, and relevant data table updates for a specific embodiment of the digital media asset management system according to the invention.

5 **Figure 4d** is a diagram illustrating the processing methodology and operational flow of a client-browser user, including key functions and example visual frames (screens) for a specific embodiment of the digital media asset management system according to the invention.

10 **Figure 4e** is a block diagram illustrating the processing methodology and structural flow all data originating by a client-browser/order user at the host for a specific embodiment of the digital media asset management system according to the invention.

15 **Figure 4f** is a diagram illustrating the processing methodology and basic data record structure as data is processed to the various tables within the databases contained for a specific embodiment of the digital media asset management system according to the invention.

20 **Figure 4g** is a diagram illustrating the processing methodology and operational flow of a client-order user, including key functions and example visual frames (screens) for a specific embodiment of the digital media asset management system according to the invention.

25 **Figure 4h** is a diagram illustrating the processing methodology and operational flow of a service provider user, receiving work orders and files through the automated delivery and distribution processing function for a specific embodiment of the digital media asset management system according to the invention.

Figure 4i is a diagram illustrating the administrative processing methodology and functional flow at the host system for a specific embodiment of the digital media asset management system according to the invention.

30 **Figure 4j** is a flow diagram illustrating the processing methodology and functional flow of jobs being received by a service providers computer system, including an example work order visual frame (screen) for a specific embodiment of the digital media asset management system according to the invention.

35 **Figure 4k** is a diagram illustrating the administrative processing methodology and functional flow at the client user system for a specific embodiment of the digital media asset management system according to the invention.

Figure 5 is a generalized diagrammatic illustration of the computer and related hardware of a specific embodiment of an overall digital media asset management system according to the invention.

40 **Figure 6 through 12** are specific example printed output of the various reports and invoices of a specific embodiment of an overall digital media asset management system according to the invention.

Figure and Diagram Hierarchy

Software Operation Figures

Hardware Architecture Figures

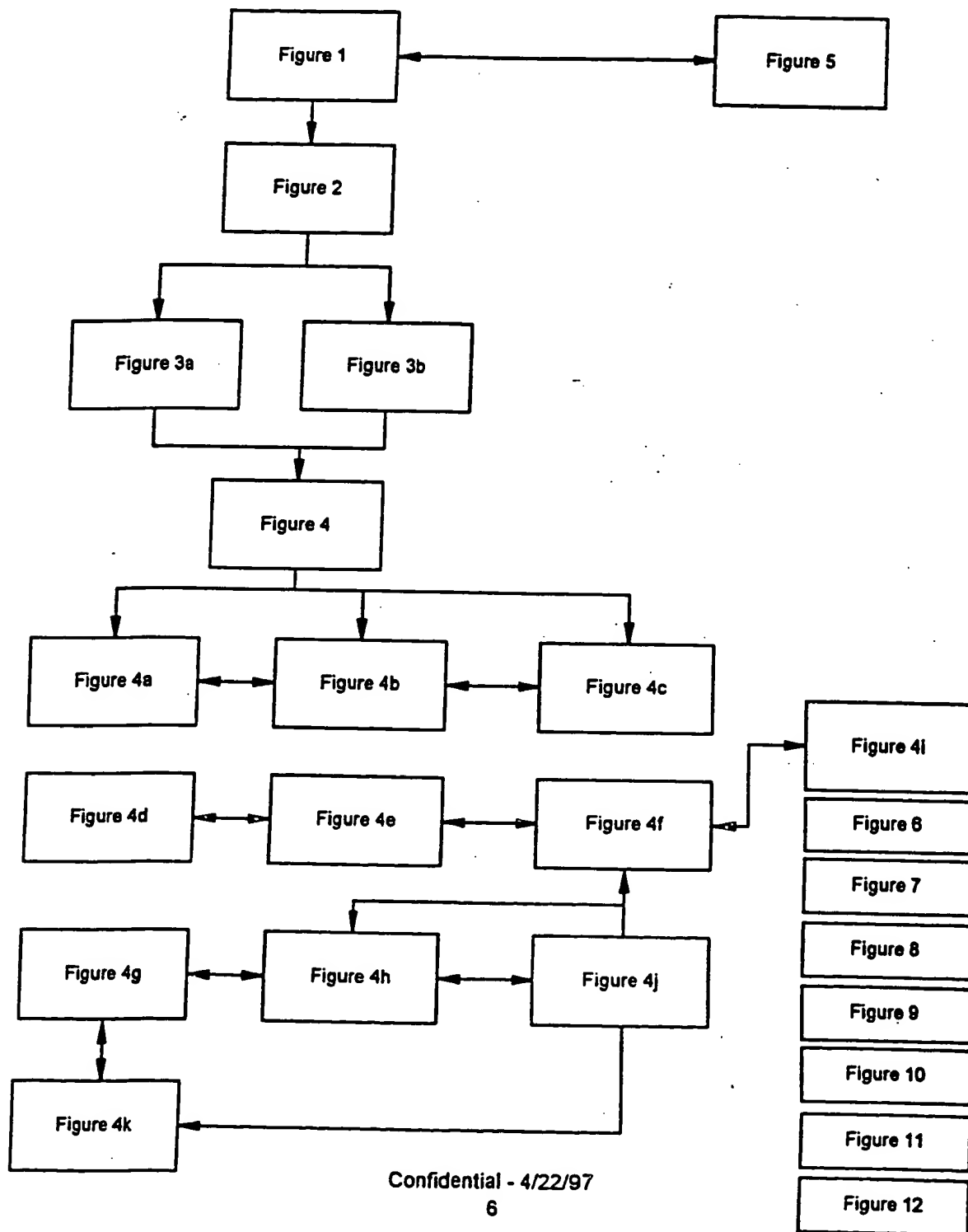


Figure 1

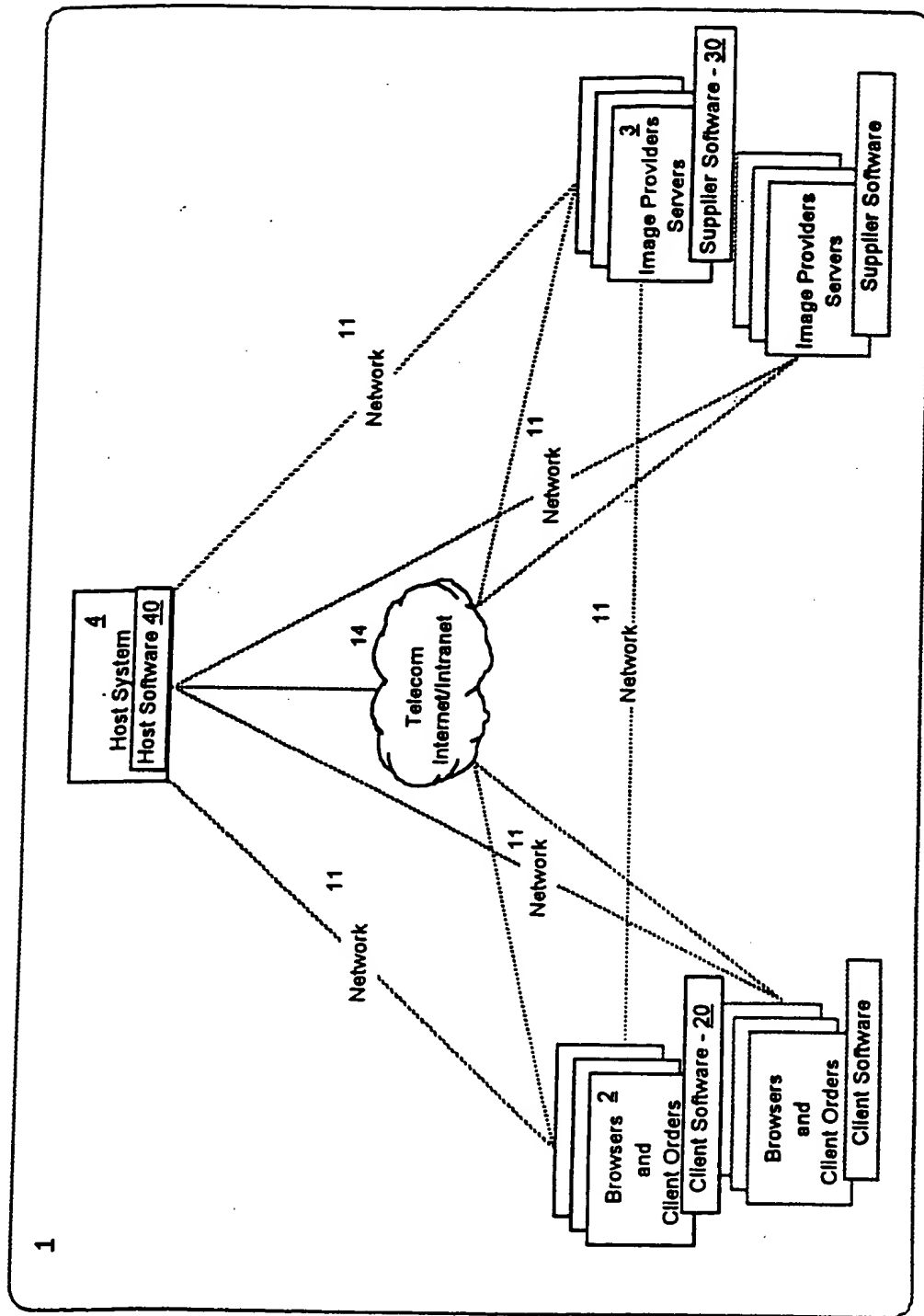
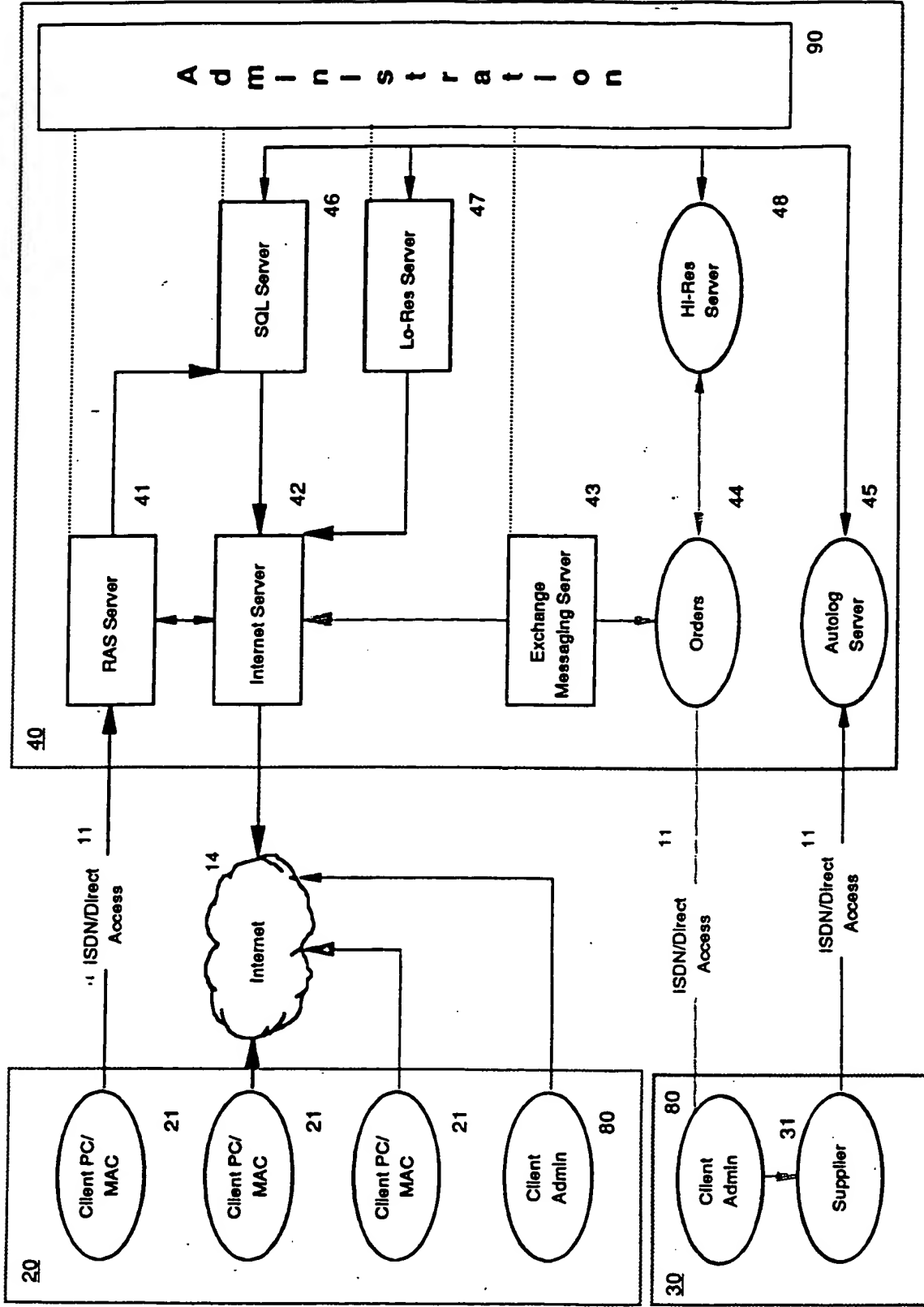
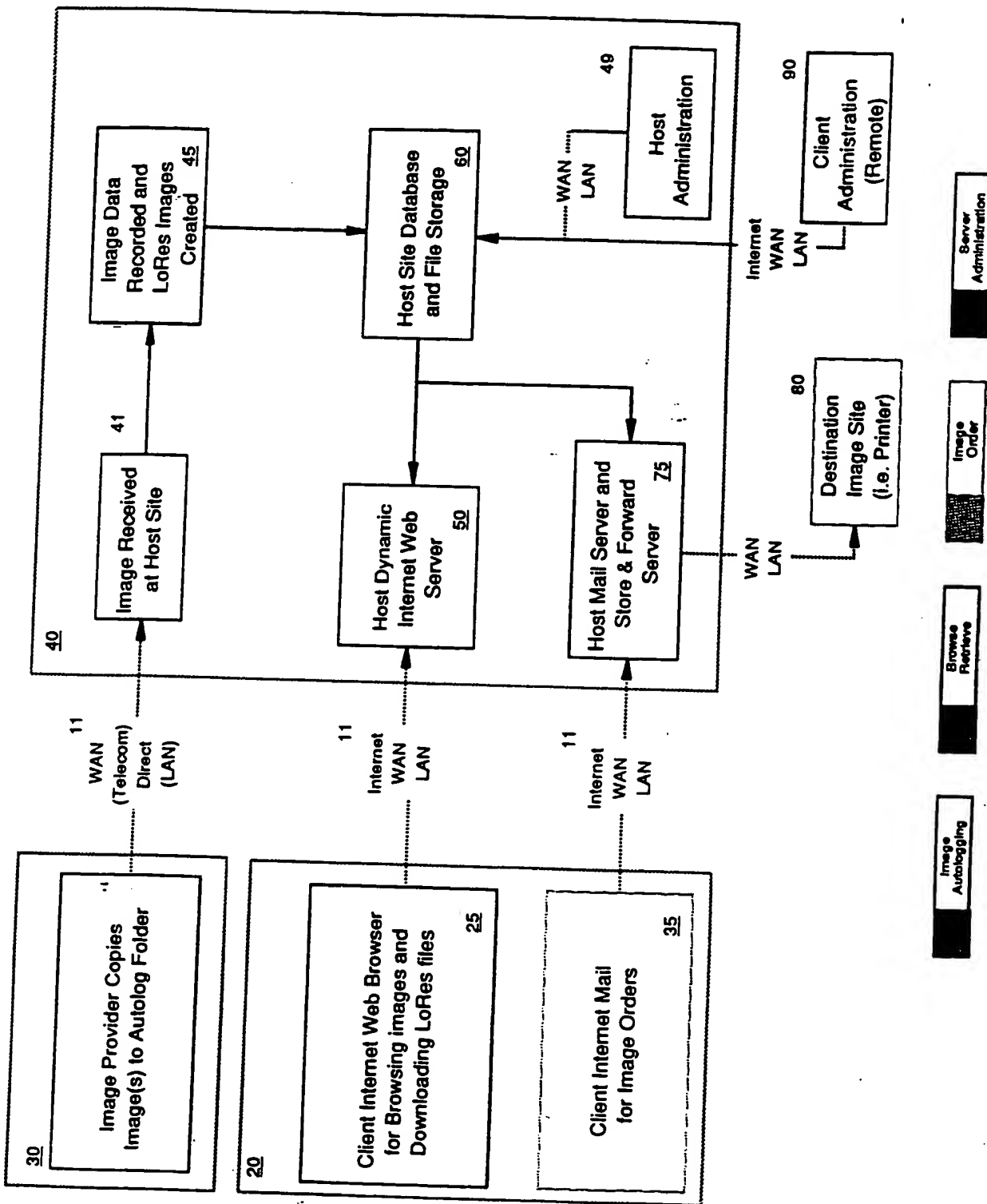


Figure 2



Climate Generalized Processing Block Diagram

Figure 3a



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Figure 3b

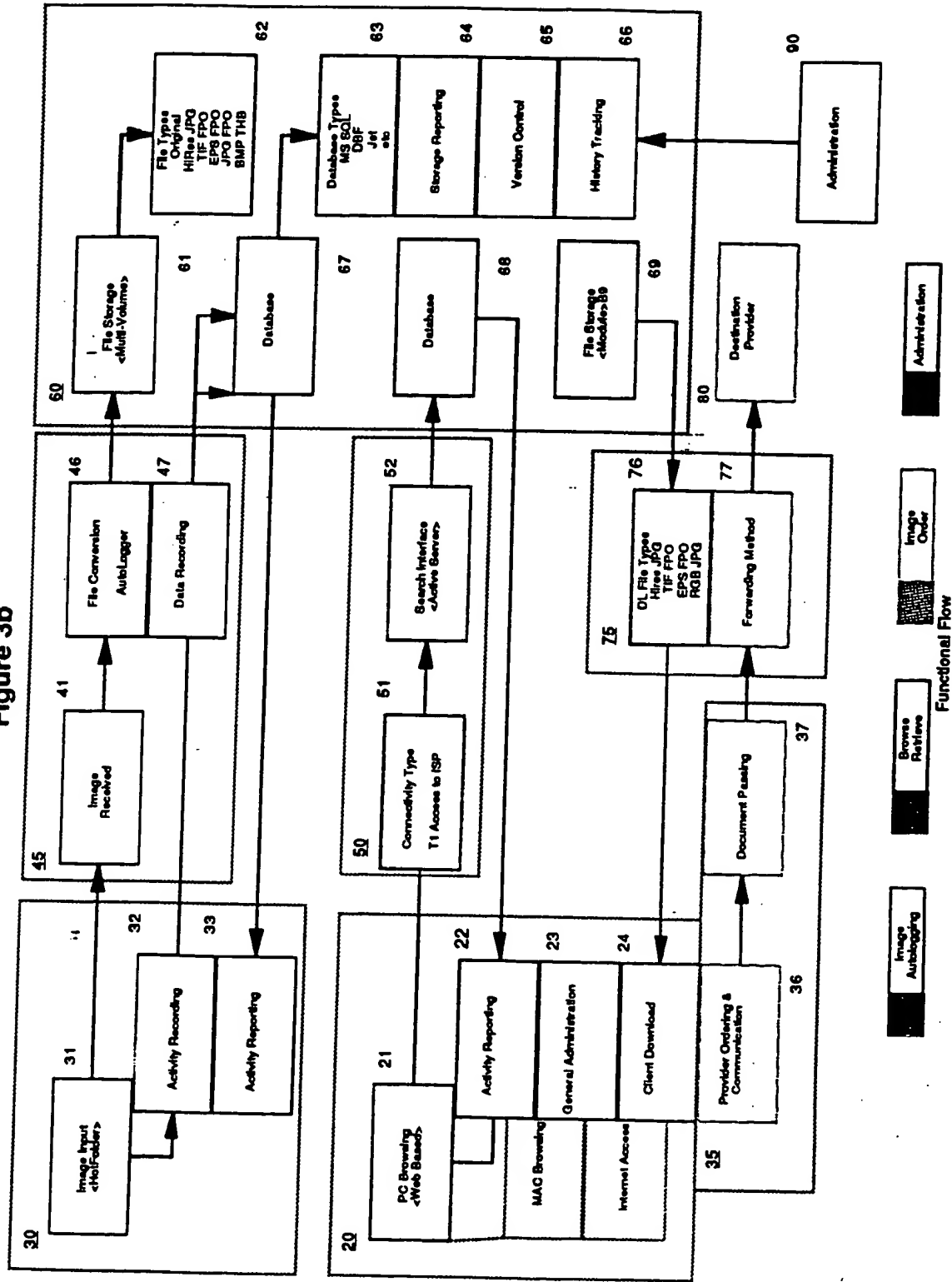


Figure 4 -Climate Overall Detail Processing Functional Flow

Fig 4a - Image Autologing
Transmission Disposition

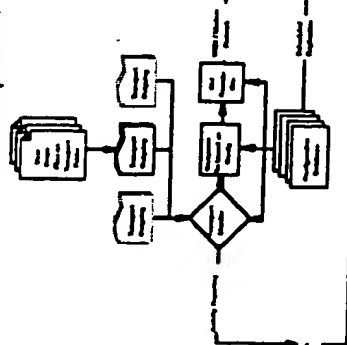


Fig 4b - Image Autologing
Incoming Disposition

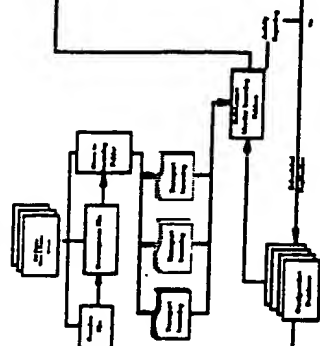


Fig 4c - Image Autologing - Server Processes

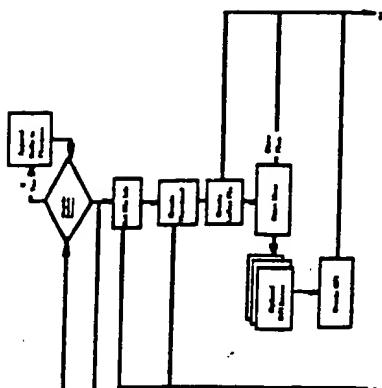


Fig 4d - Image Browser - Client Side

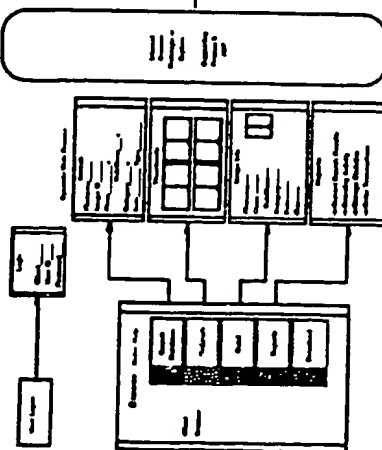


Fig 4e - Image Browser - Server Side

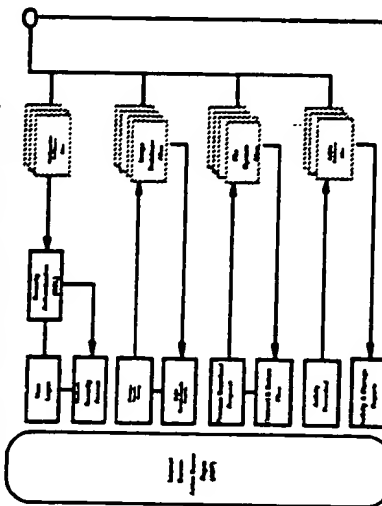


Fig 4f - Server Storage/Database

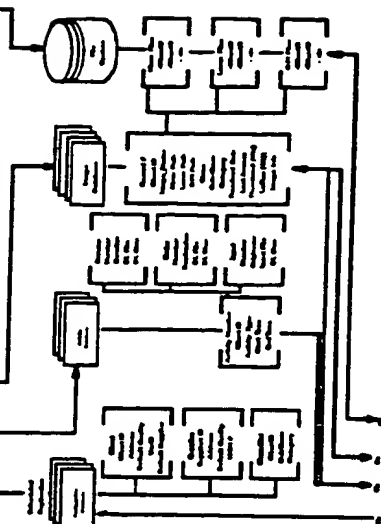


Fig 4g - Image Order - Client Side

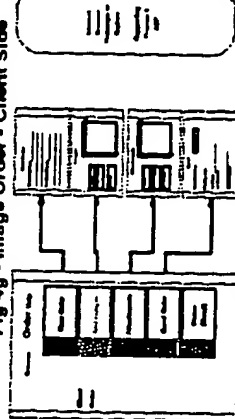


Fig 4h - Image Order - Server Side

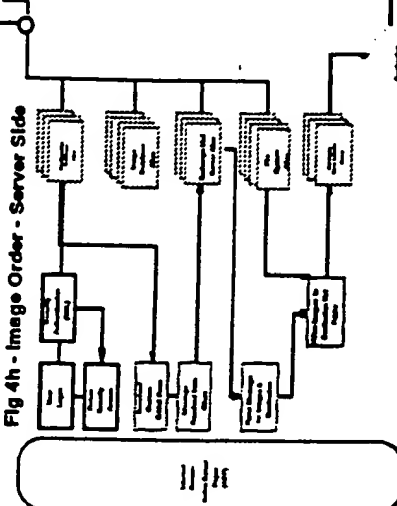


Fig 4i - Client/Server Administration

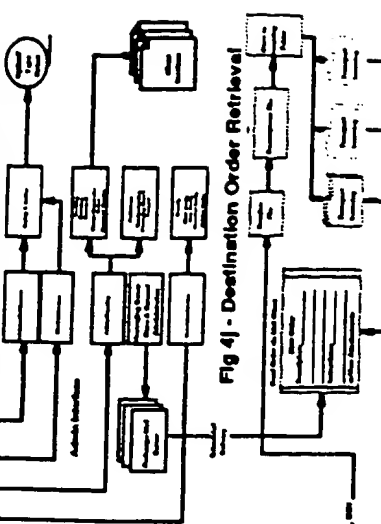


Fig 4k - Client Administration

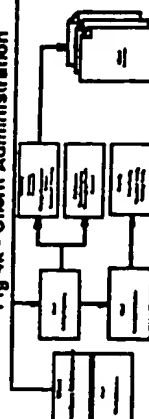


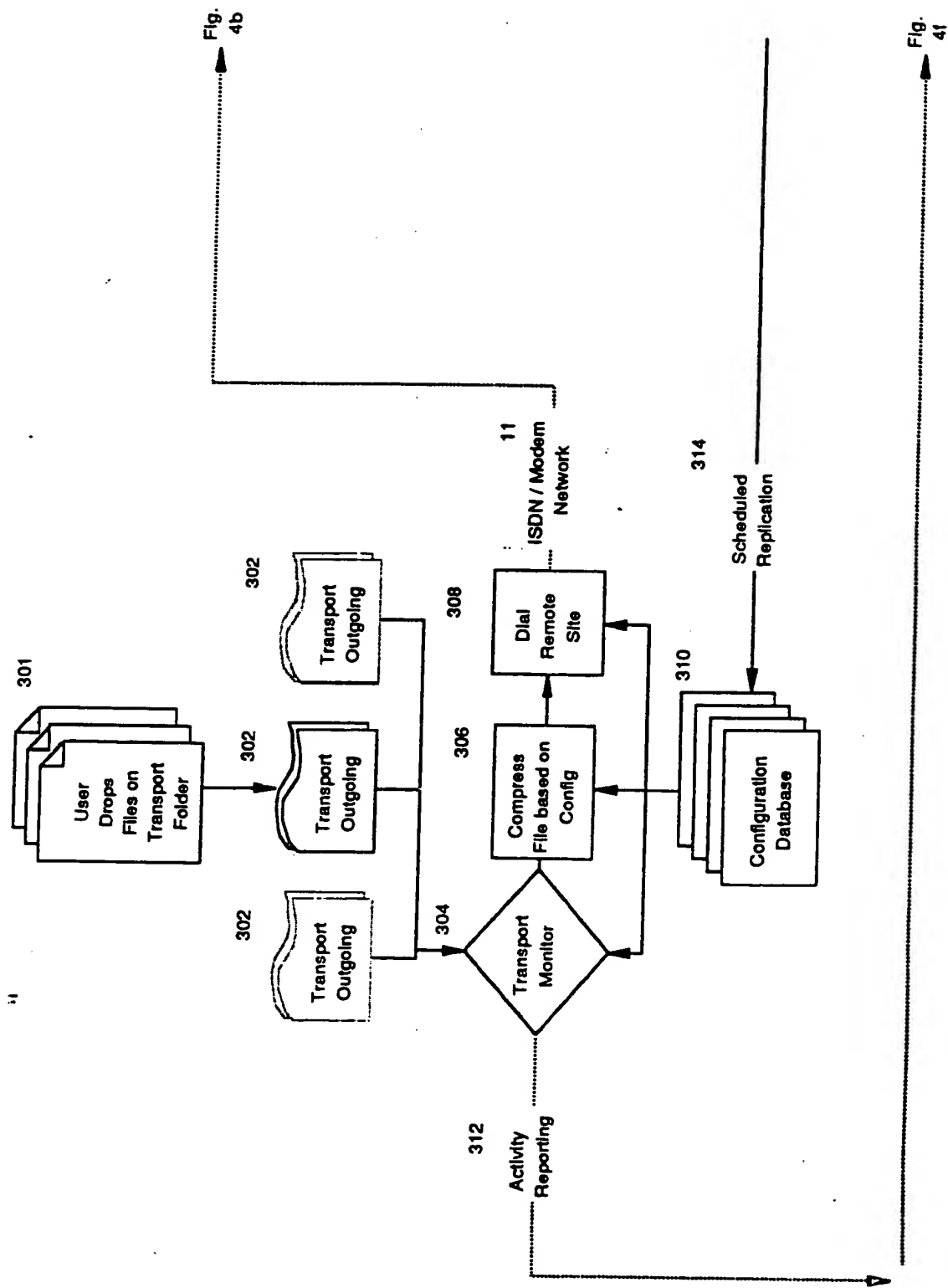
Fig 4j - Destination Order Retrieval



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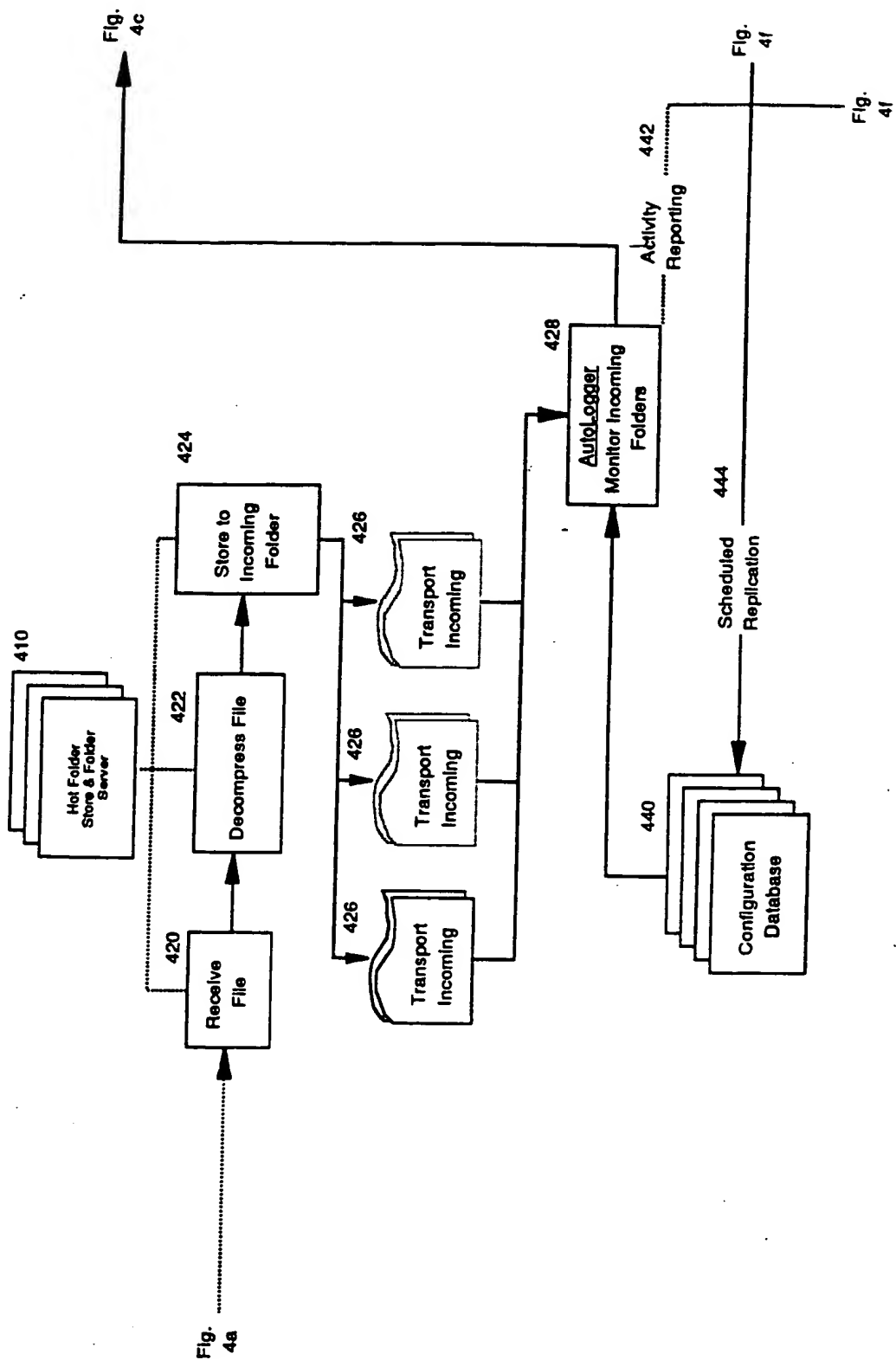
Climate Specific Processing Functional Flow
Image AutoLogging - Transmission

Figure 4a



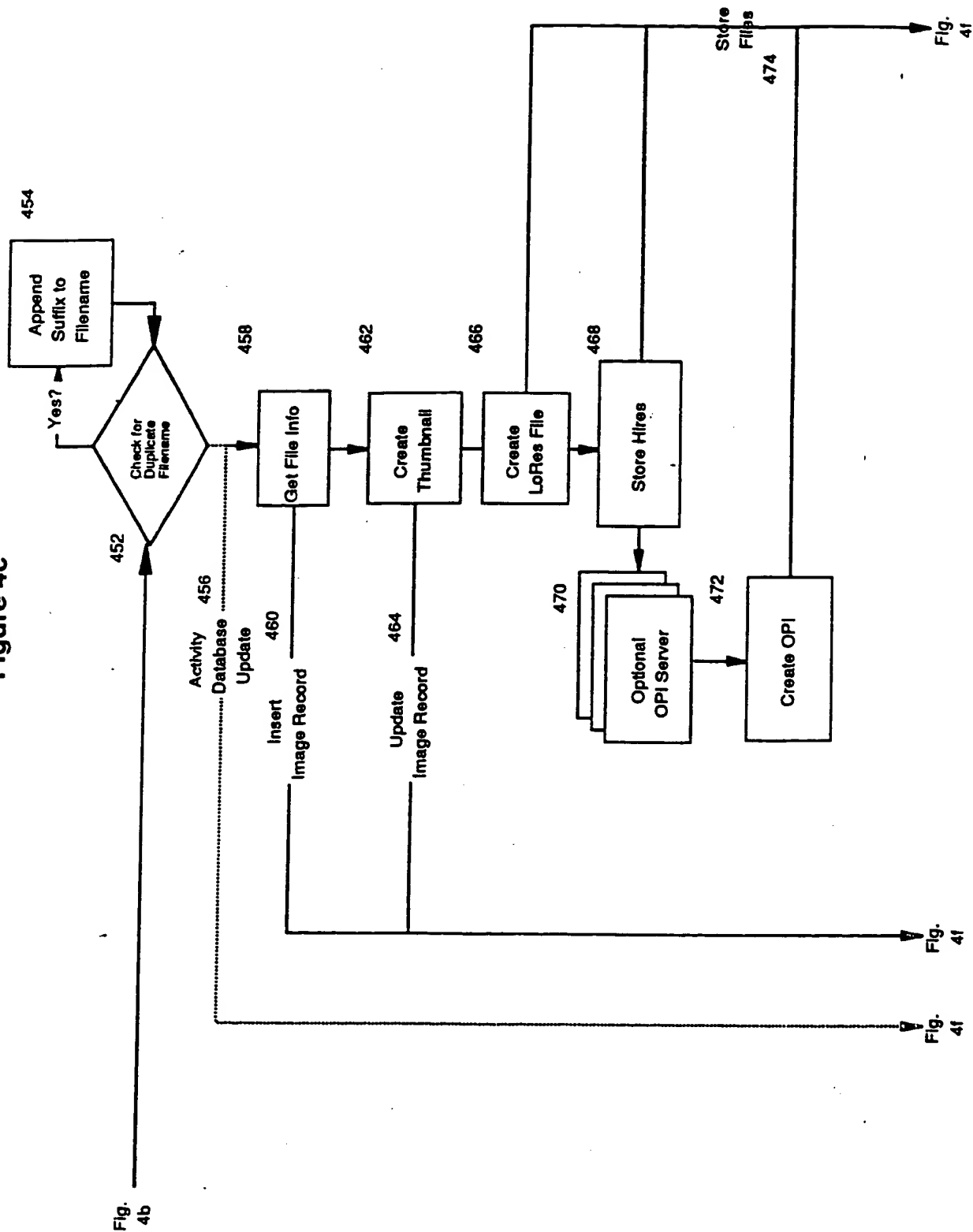
Climate Specific Processing Functional Flow Image AutoLogging - Incoming

Figure 4b



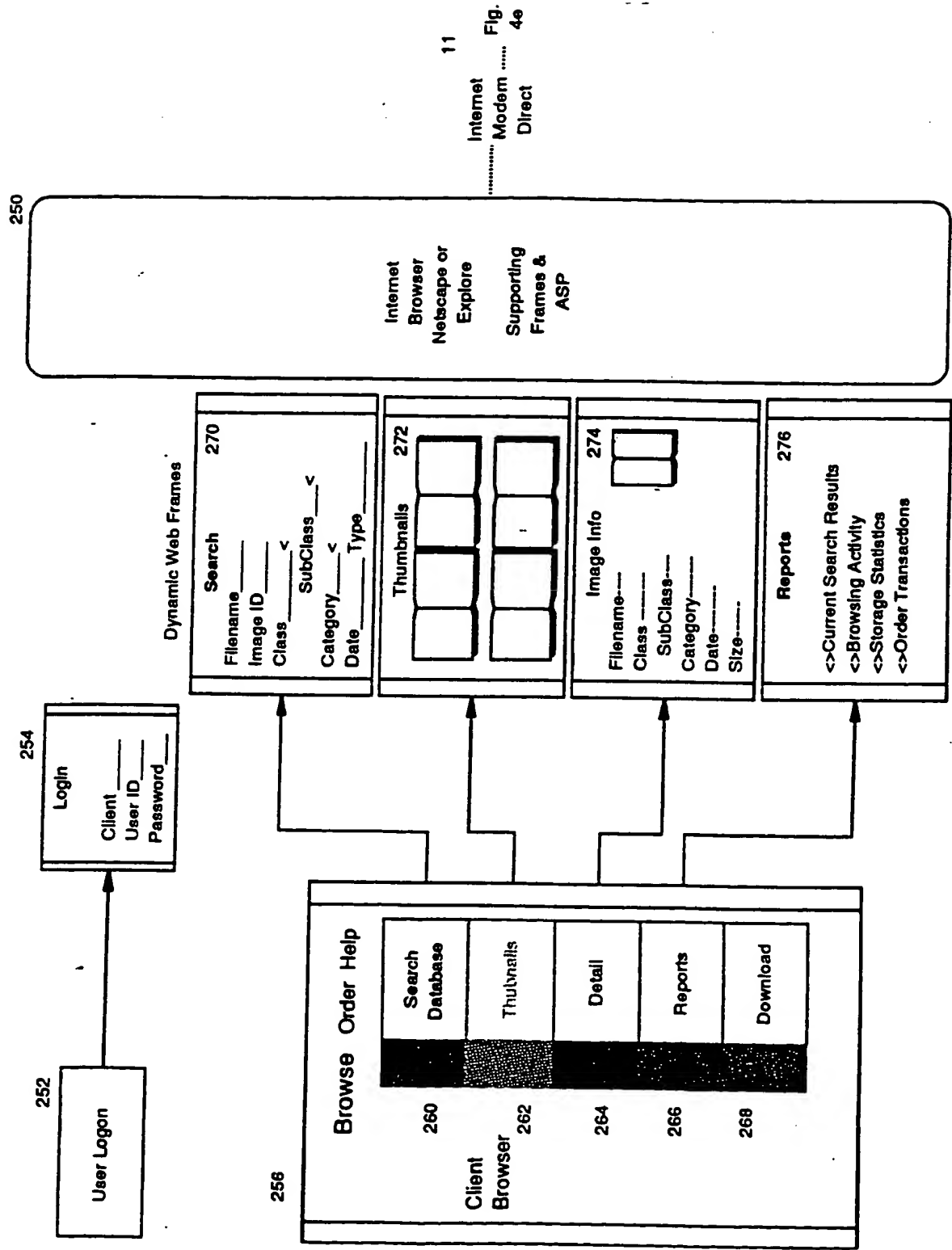
Climate Specific Processing Functional Flow Image AutoLogging -Server Processes

Figure 4c



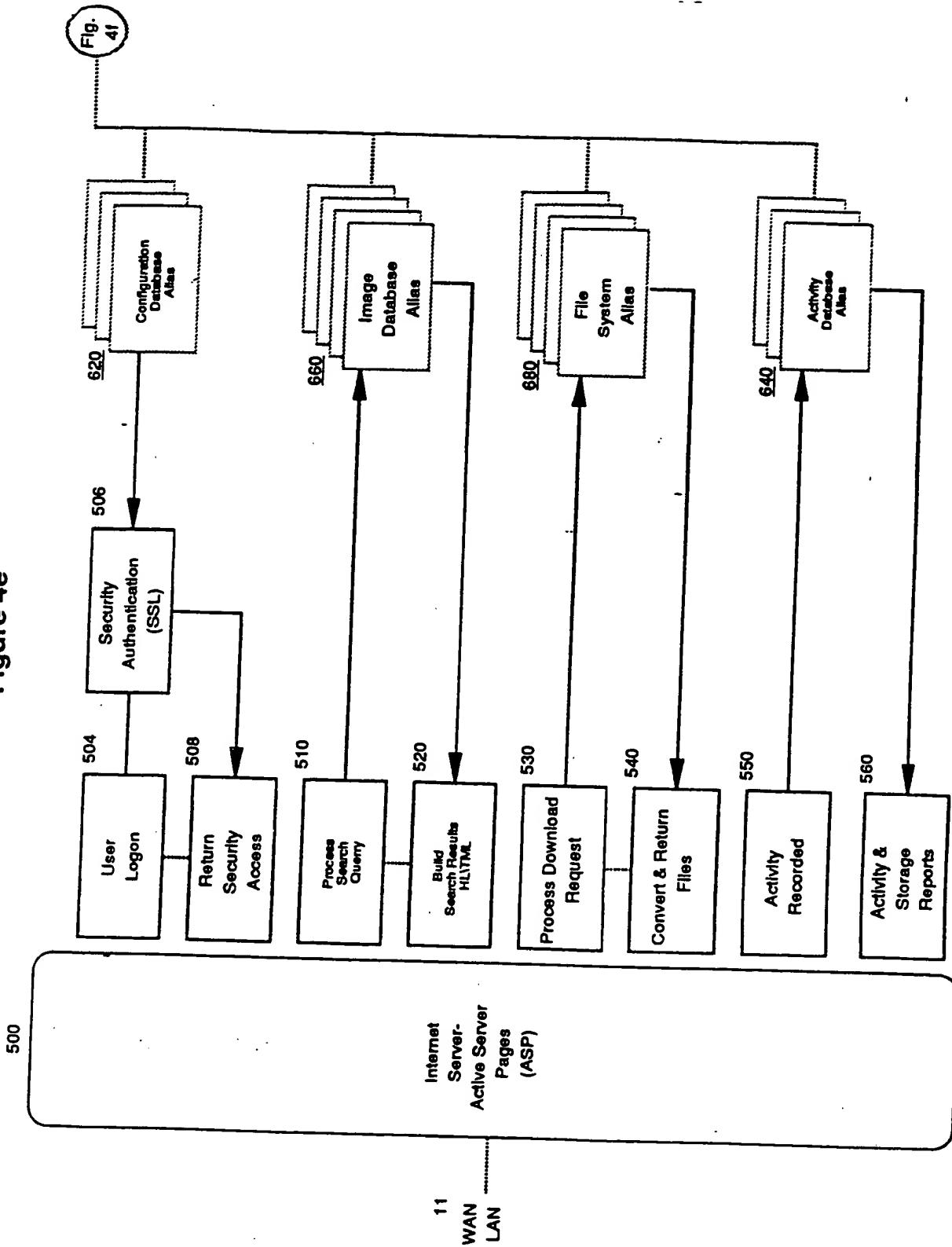
Climate Specific Processing Functional Flow Image Browser - Client Side

Figure 4d



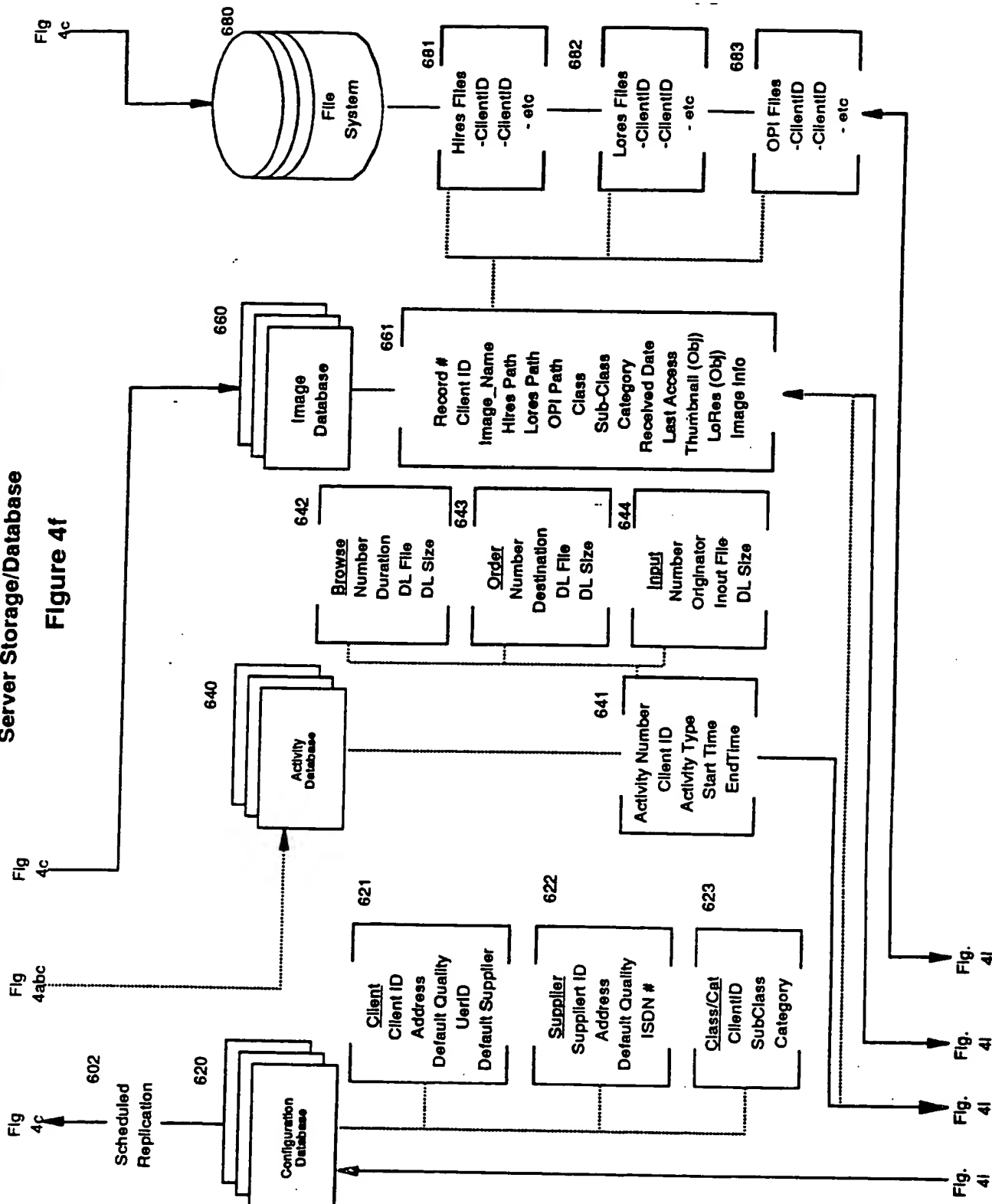
Climate Specific Processing Functional Flow
Image Browser - Server Side

Figure 4e

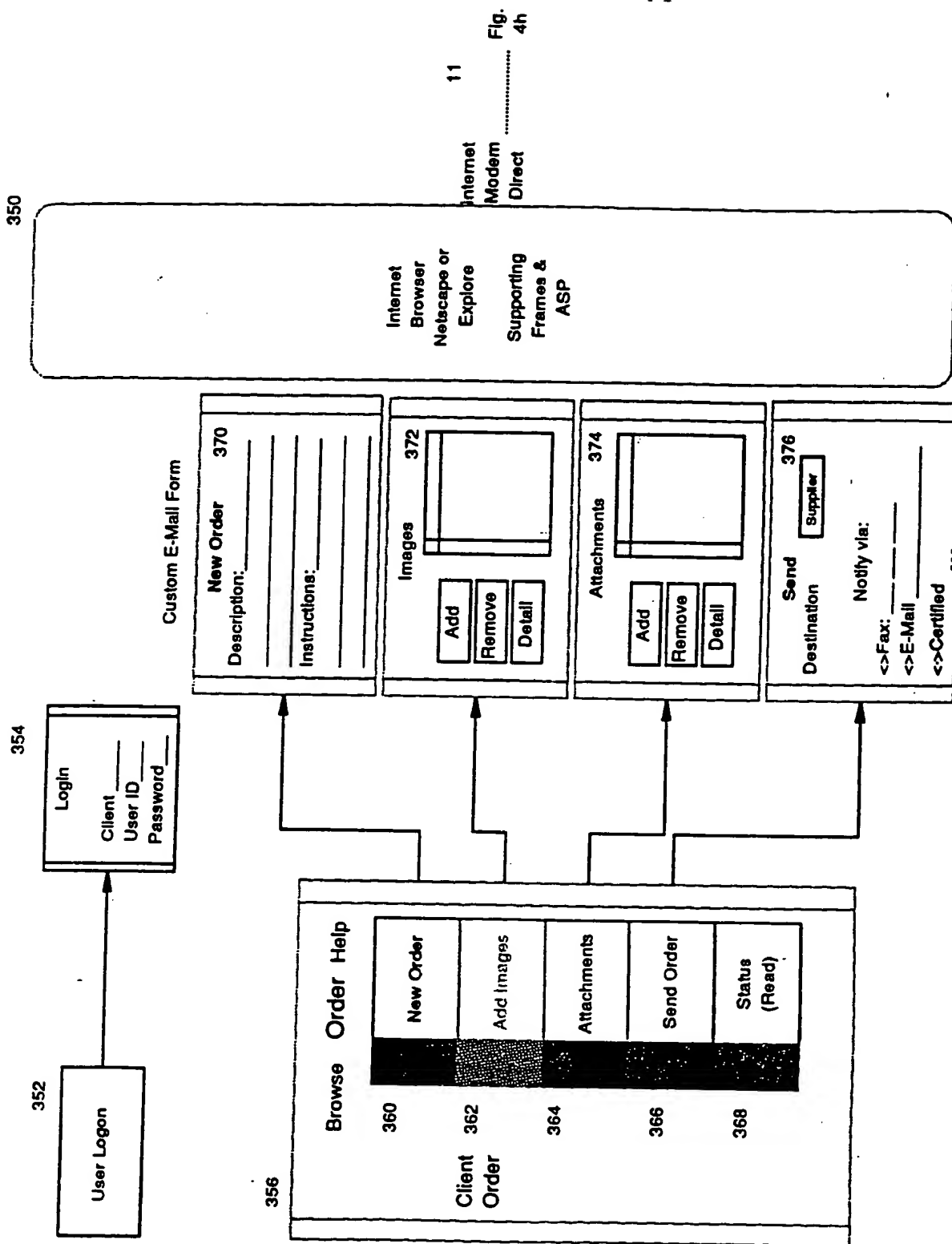


Climate Specific Processing Functional Flow Server Storage/Database

Figure 4f



Climate Specific Processing Functional Flow
Image Order - Client Side
Figure 4g

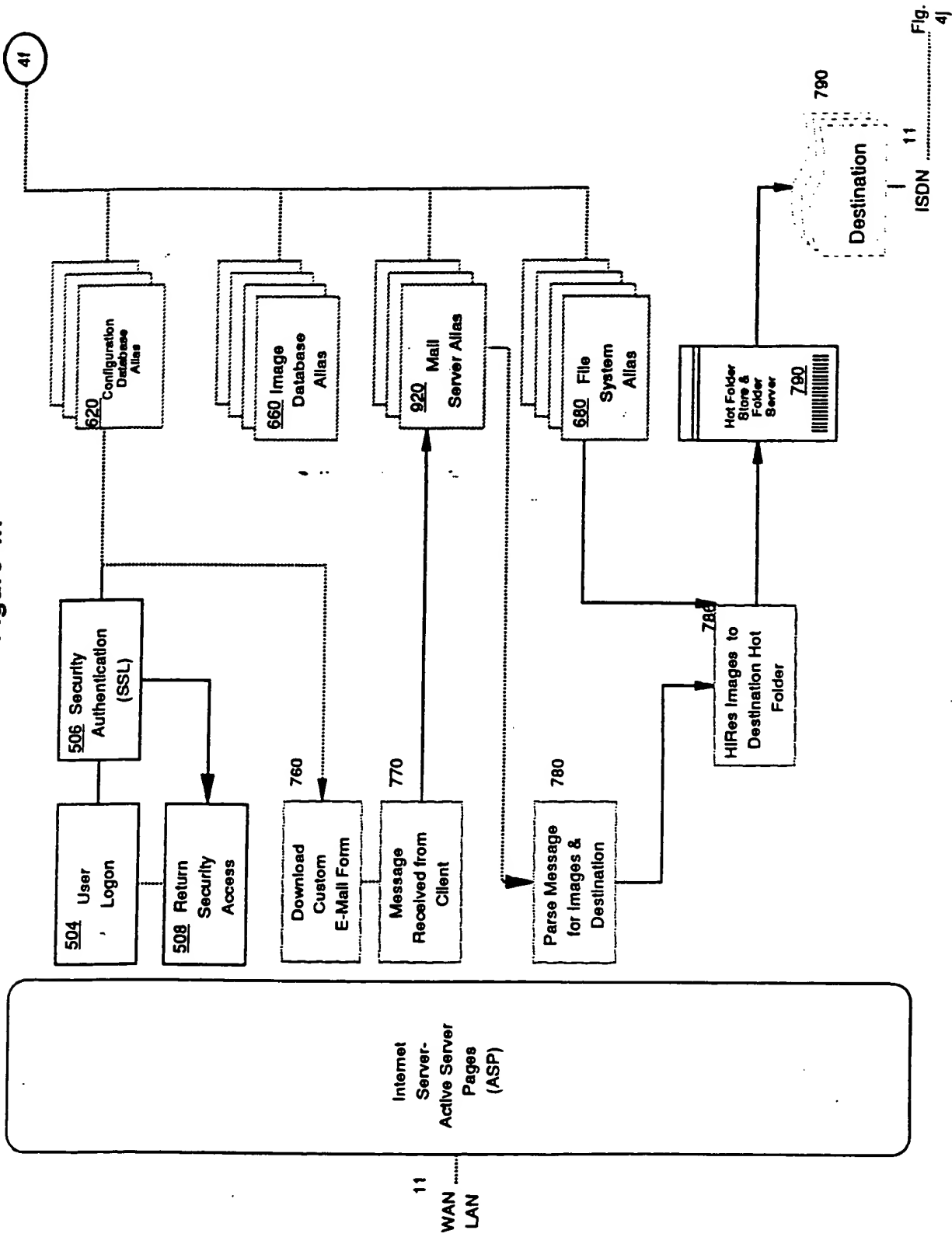


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Climate Specific Processing Functional Flow Image Order - Server Side

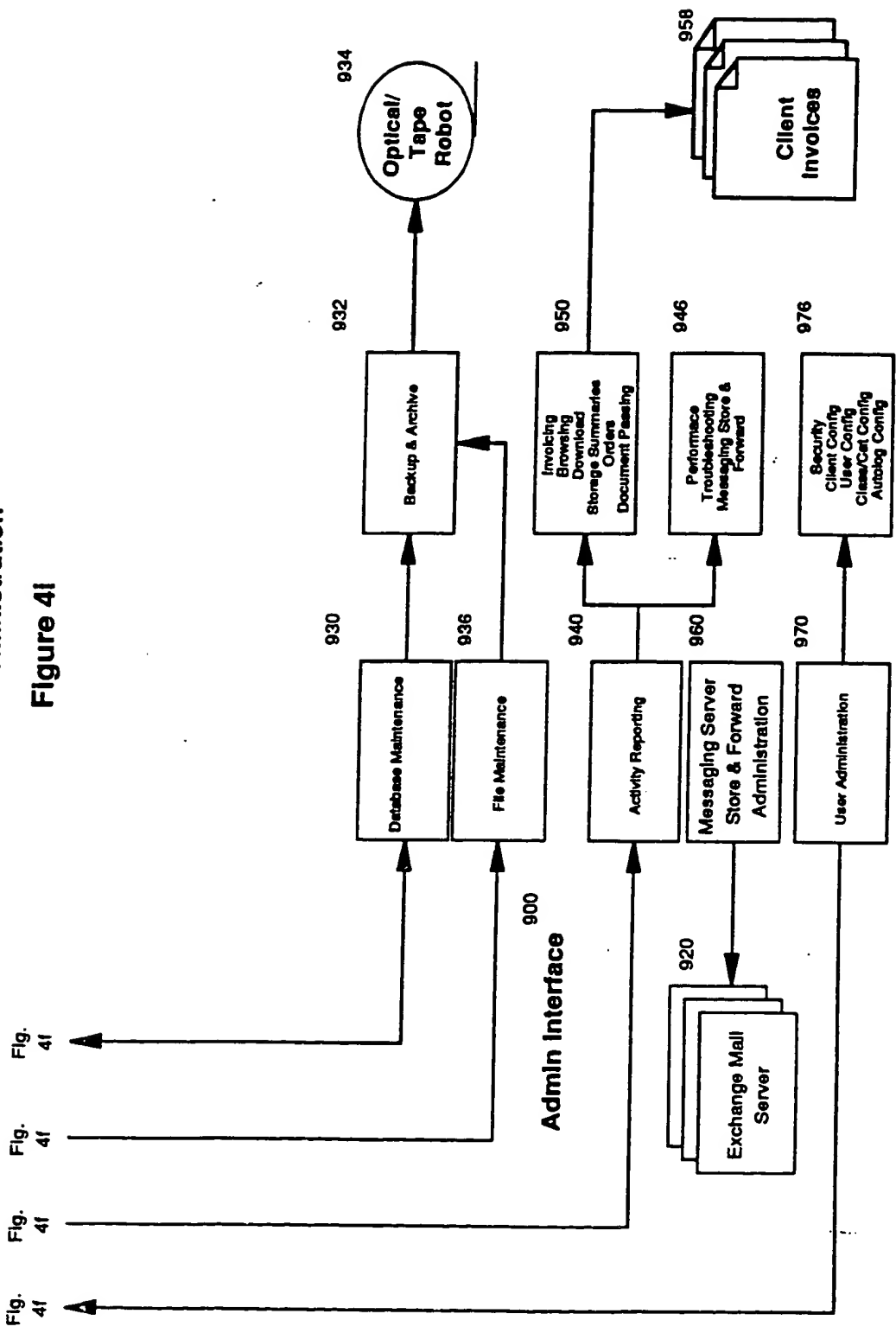
Figure 4h

750



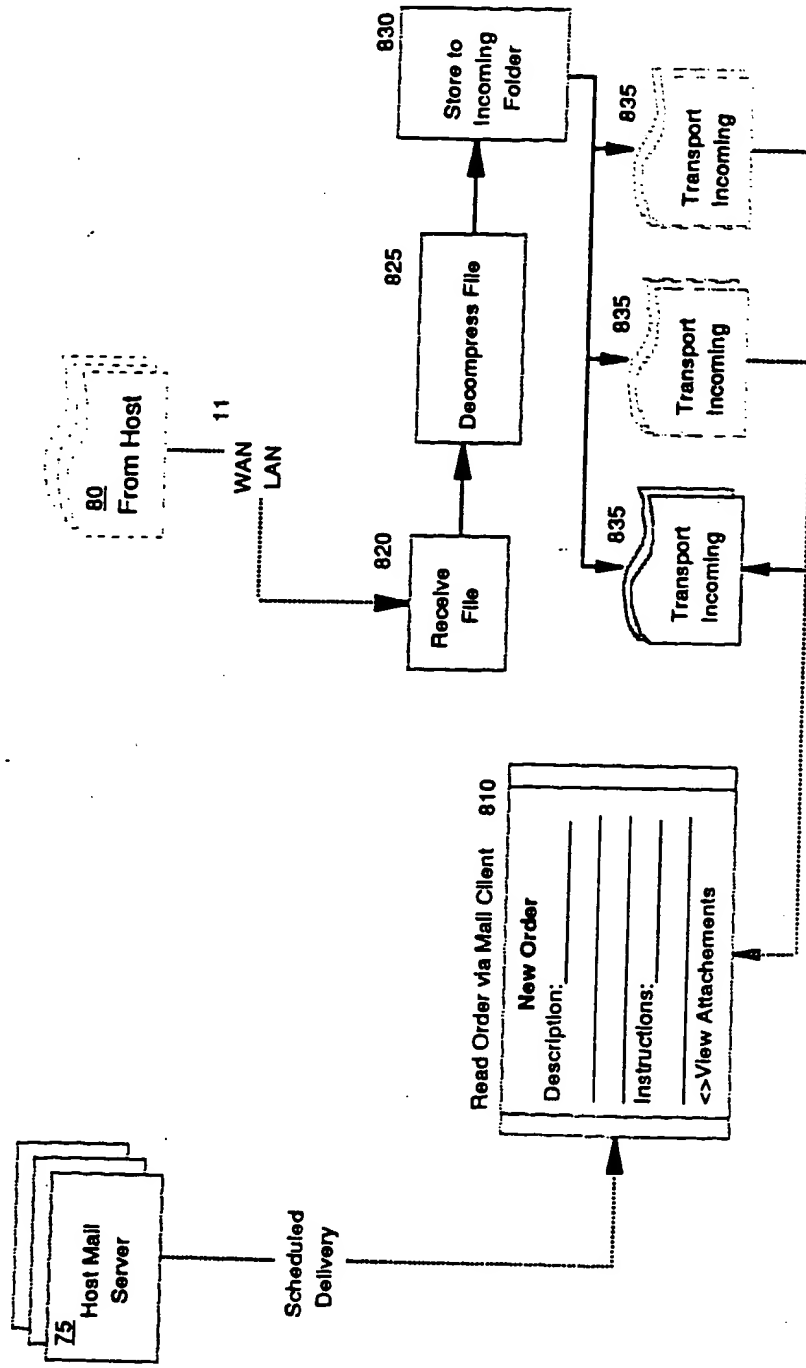
Climate Specific Processing Functional Flow
Client/Server Administration

Figure 4i



Cllmate Specific Processing Functional Flow
Image Order Destination Retrieval

Figure 4j



Climate Specific Processing Functional Flow
Client Administration

Figure 4k

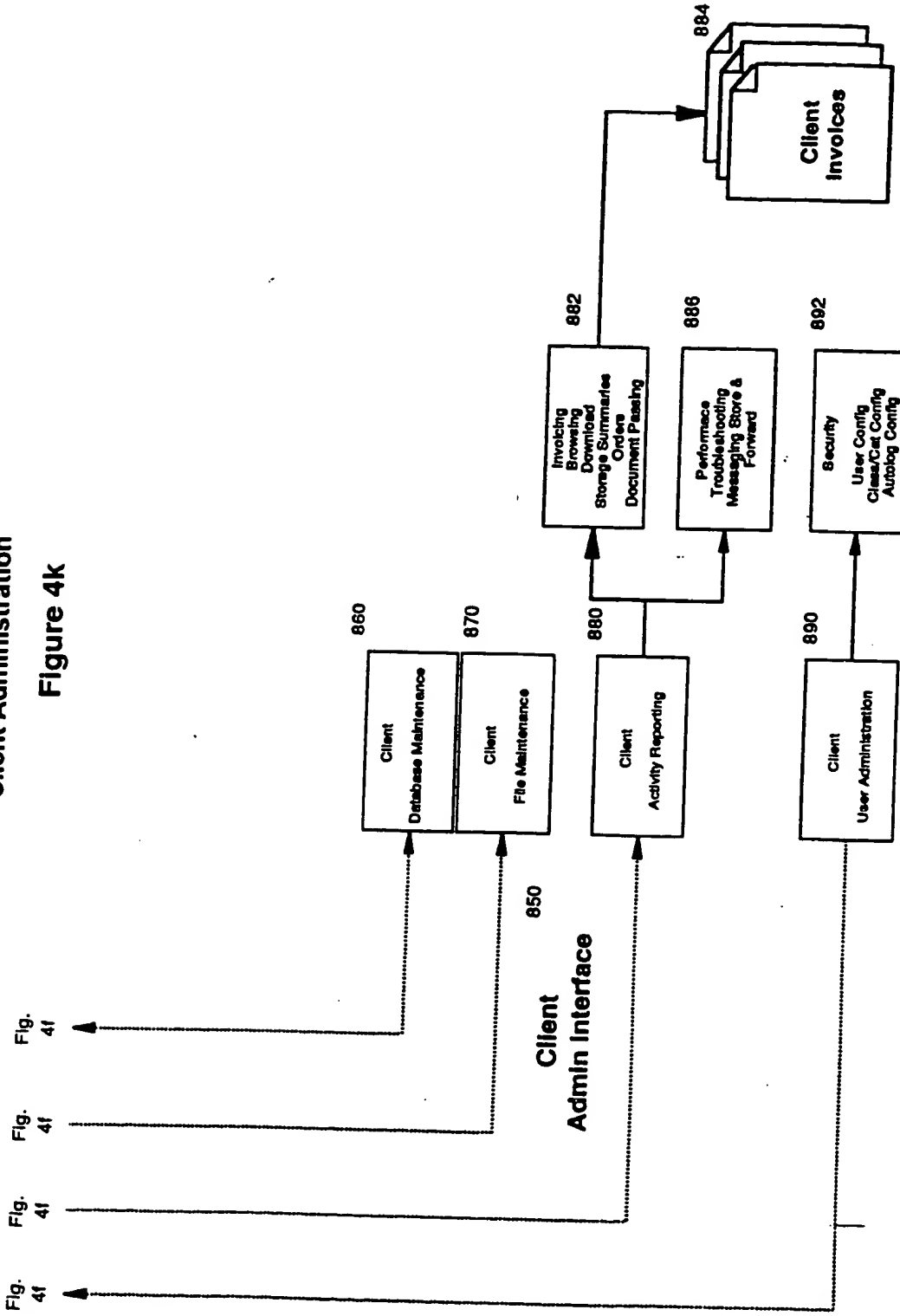
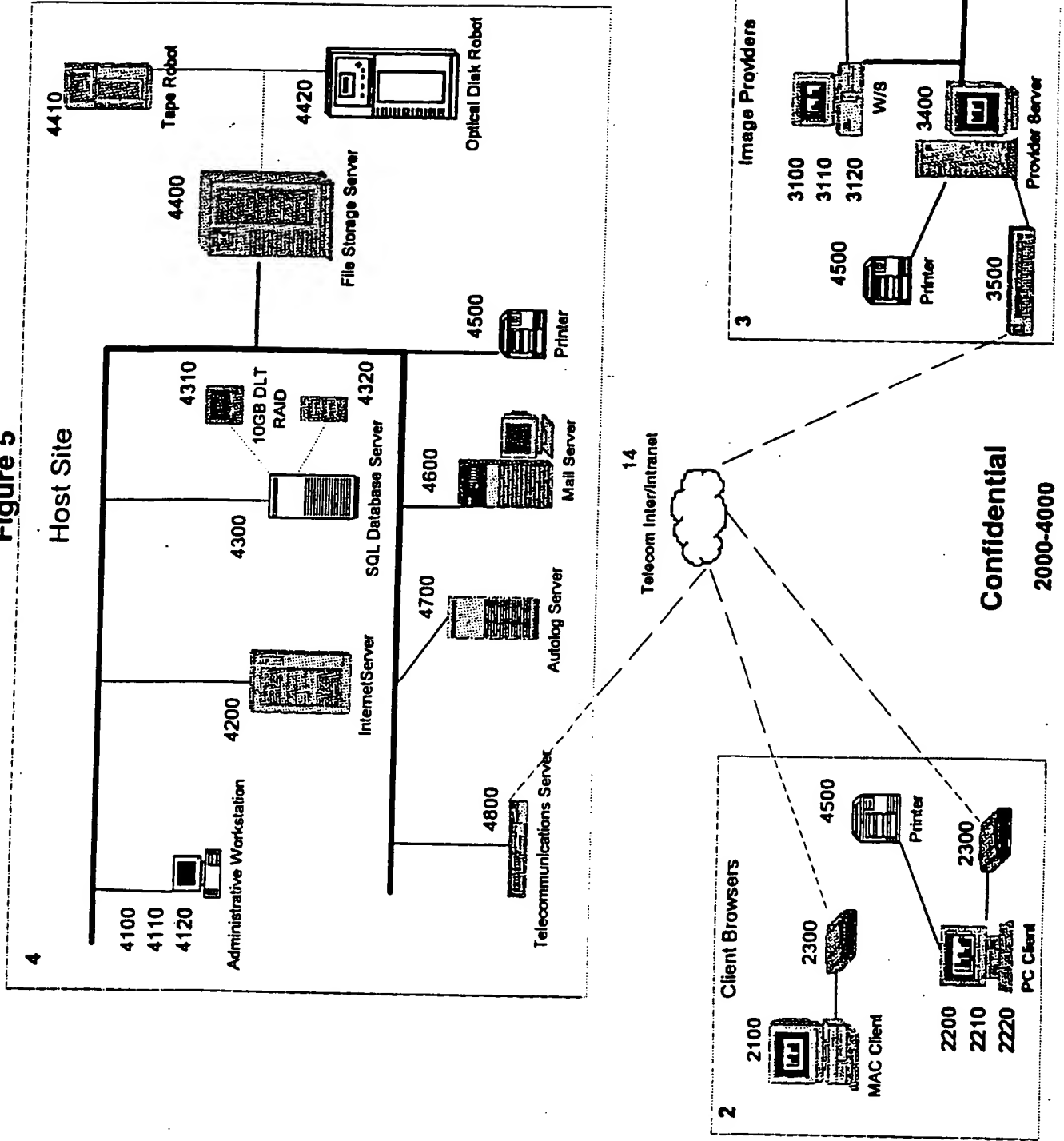


Figure 5



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Figure 6

23-Apr-97

Climate Image Browsing Activity Log

Client #: 11111

Monet

Browsing Transactions \$0.98 per min.

\$2.60 per OPI DL

1-Nov-96 - 11/30/96

(Reference #)	Duration (min)	TN (file)	OPI's (file)	Total
User: John Jebens ID: 11112				
100001565 11/14/96 4:36:09 P to 4:37:12 PM	1.05	18	0	1.03
100001640 11/21/96 11:09:20 A to 11:13:19 AM	3.98	407	0	3.90
100001641 11/21/96 11:19:25 A to 11:26:04 AM	6.65	590	0	6.52
100001655 11/23/96 1:07:02 P to 1:08:10 PM	1.13	14	0	1.11
100001657 11/23/96 1:23:52 P to 1:26:50 PM	2.97	19	0	2.91
100001658 11/23/96 2:05:26 P to 2:09:39 PM	4.22	14	0	4.13
100001659 11/23/96 2:21:56 P to 2:25:16 PM	3.33	28	0	3.27
Total for User John 7 sessions	23.33	1090	0	\$22.87

Ref:BRS 4/23/97/11111/6

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Figure 7

Client Image Storage									
Last Accessed	Image Name	Days in System	Storage Cost/mo	Image Size	JPEG Size	File Type	Resolution Value	Compression Ratio	
23-Apr-97									
Monet									
3/1/97									
18-Mar-97	MO_CODE21.TIF	110	\$0.34	91,941	95,221	Other	75	0.97	
18-Mar-97	MO_CODEBASE.TW	127	\$0.50	1,307,820	1,307,820	CYMK	75	1.00	
18-Mar-97	MO_D423_8.TIF	335	\$0.33	8,624	31,885	CYMK	100	0.27	
20-Mar-97	MO_RPT_BROWSE-	98	\$0.35	168,242	168,242	RGB	100	1.00	
20-Mar-97	MO_RPT_BROWSE-	98	\$0.35	138,182	138,182	RGB	100	1.00	
20-Mar-97	MO_RPT_BROWSE.	98	\$0.33	33,807	33,807	RGB	100	1.00	
20-Mar-97	MO_RPT_CURRENT	98	\$0.35	154,830	154,830	RGB	100	1.00	
20-Mar-97	MO_RPT_CURRENT	98	\$0.34	93,538	93,538	RGB	100	1.00	
20-Mar-97	MO_RPT_STORE-D	98	\$0.35	130,814	130,814	RGB	100	1.00	
20-Mar-97	MO_RPT_STORE-S	98	\$0.34	108,228	108,228	RGB	100	1.00	
18-Mar-97	MO_TEST_FILE.TIF	110	\$0.34	795,628	40,147	CYMK	75	19.82	
18-Mar-97	MO_TEST_FILE_TW	187	\$0.43	804,943	804,943	CYMK	75	1.00	
18-Mar-97	MO_TEST_ME_AGAI	198	\$0.55	7,449,416	1,998,748	CYMK	90	4.39	
18-Mar-97	MO_TEST1.TIF	330	\$0.37	283,385	283,385	RGB	100	1.00	
18-Mar-97	MO_TIFIMAGE.TIF	327	\$0.40	13,113,284	568,136	CYMK	75	23.04	
Month's Files:		15	\$5.69	24,678,682	5,654,926		91	4.36	
1/1/97									
09-Jan-97	DOCUMENT.	667	\$0.33	1,917	1,354	RGB	80	1.42	
17-Jan-97	MO_ABOUT.TIF	98	\$0.34	68,549	68,549	RGB	100	1.00	
17-Jan-97	MO_ADVANCED.TIF	98	\$0.34	67,802	67,802	RGB	100	1.00	
17-Jan-97	MO_AUTO_BUILD.TI	98	\$0.34	70,898	70,898	RGB	100	1.00	
17-Jan-97	MO_BR-DETAIL-1.TI	98	\$0.35	127,133	127,133	RGB	100	1.00	
17-Jan-97	MO_BR-DOWNLOA	98	\$0.35	153,975	153,975	RGB	100	1.00	
17-Jan-97	MO_BR-DOWNLOA	98	\$0.35	152,544	152,544	RGB	100	1.00	
17-Jan-97	MO_BR-EDIT-1.TIF	98	\$0.35	130,220	130,220	RGB	100	1.00	
17-Jan-97	MO_BR-EDIT-2.TIF	98	\$0.35	134,231	134,231	RGB	100	1.00	
17-Jan-97	MO_BR-EDIT-3.TIF	98	\$0.35	148,785	148,785	RGB	100	1.00	
17-Jan-97	MO_BR-FILENAME.	98	\$0.35	138,340	138,340	RGB	100	1.00	
17-Jan-97	MO_BR-ORDER-1.TI	98	\$0.35	130,144	130,144	RGB	100	1.00	
Monet									

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Figure 8

23-Apr-97

Climate Image Storage and Activity Log

Client #: 11111

Monet

Storage Transactions \$0.33 per file+ \$0.13 per MB

1-Nov-96 - 11/30/96

<i>Last Access</i>	<i>Files Accessed</i>	<i>Total Size (MB)</i>	<i>Fixed File Cost</i>	<i>MB Cost</i>	<i>Storage Cost</i>
1 Month(s) Ago	5	3.388	1.65	0.44	\$2.09
3 Month(s) Ago	2	1.309	0.66	0.17	\$0.83
4 Month(s) Ago	1	9.159	0.33	1.19	\$1.52
6 Month(s) Ago	1	0.001	0.33	0.00	\$0.33

Storage Summary for:

\$4.77

Monet

Client #: 11111

<i>Files In Storage</i>	<i>HIRes Size</i>	<i>JPEG Size</i>	<i>Fixed File</i>	<i>MB Cost</i>	<i>Storage Cost</i>
9	32.130	13.857	2.97	1.80	\$4.77
Avg File	3.570	1.540	0.33	0.20	\$0.53

Provider's Discount

Storage Transactions

\$0.330 per file+

\$0.130 per MB

<i>Files in Storage</i>	<i>HIRes Size</i>	<i>JPEG Size</i>	<i>Fixed File</i>	<i>MB Cost</i>	<i>Storage Cost</i>
9	32.130	13.857	2.97	1.80	\$4.77

Ref:STR 4/23/97/11111/1

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Figure 9

23-Apr-97

Climate New Image Entry Activity Log

Client #: 11111

Monet

Librarian: Jeff

Image Entry Transactions \$0.75 per file+ \$0.50 per MB

01-Nov-96 to 30-Nov-96

Input by: Monet

Reference #
1000000997 11/15/96 12:51:00 PM

Image Name
MO_PLSDMVP.TIF

HiRes (MB)	JPEG (MB)	Total (\$)
1.308	1.308	1.40

Monet 1 new files
entered

1.308	1.308	\$1.40
-------	-------	--------

Image Entry Transactions Summary for:

Monet

1 new files
entered

HiRes (MB)	JPEG (MB)	Total
1.308	1.308	\$1.40

Client #: 11111

Compression
Ratio
1.00

Average

1.308	1.308	\$1.40
-------	-------	--------

Ref:IDF 4/23/97/1111/1

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Figure 10

23-Apr-97

Climate Image Ordering Activity Log

Client #: 11111

Monet

Order Transactions \$6.00 per file 1.00 per MB 1/1/97 - 1/31/97

(Reference #)	Image Name (Documents)	Size (bytes)	Transmit Size (MB)	Total	
User: Jeff James ID: 11111					
100000265 1/9/97	MO_CODEBASETWO.TIF	1,307,820	1.308	\$7.31	
	MO_TEST1.TIF	283,385	0.283	\$5.28	
Destination: 11111 Documents:					
100000275 1/10/97	MO_TIFIMAGE.TIF	13,113,284	0.569	\$8.57	
	MO_D423_8.TIF	8,624	0.032	\$6.03	
	MO_CODEBASETWO.TIF	1,307,820	1.308	\$7.31	
Destination: 11111 Documents: ERRORS.TXT					
		1,675,432			
Total for User Jeff		5 sessions	5 files	3.500	\$33.50

Ref:BRS 4/23/97/1:111/i

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Figure 11

23-Apr-97

Climate Purged Image Storage Log

Client #: 11111

Monet

Storage Transactions \$0.33 per file+ \$0.13 per MB

1-Jan-97 - 1/31/97

<i>Date Purged</i>	<i>Files Purged</i>	<i>Total Size (MB)</i>	<i>Fixed File Cost</i>	<i>MB Cost</i>	<i>Storage Cost</i>
Tuesday, January 07, 1997	1	0.080	0.33	0.01	\$0.34
Wednesday, January 08, 1997	5	18.756	1.65	2.44	\$4.09
<i>Purged Storage Summary for:</i>					\$4.43

Monet

Client #: 11111

<i>Files In Purge</i>	<i>HiRes Size</i>	<i>JPEG Size</i>	<i>Fixed File</i>	<i>MB Cost</i>	<i>Storage Cost</i>
6	48.798	18.837	1.98	2.45	\$4.43
Avg File	8.133	3.139	0.33	0.41	\$0.74

Provider's Discount

Storage Transactions

\$0.330 per file+

\$0.130 per MB

<i>Files In Purge</i>	<i>HiRes Size</i>	<i>JPEG Size</i>	<i>Fixed File</i>	<i>MB Cost</i>	<i>Storage Cost</i>
6	48.798	18.837	1.98	2.45	\$4.43

Ref:PRG 4/23/97/11111/1

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Figure 12

Monet, Inc*Managing Your Good Impressions*4511 North Himes Avenue Suite 285
Tampa, Florida 33614email: monetjj@ix.netcom.com
Tel: 813-870-3300 Fax: 813-870-3203**INVOICE**

INVOICE NO: MO97-113

DATE: 23-April-97

To: QUANTECH
1929 E. 10th Ave.
Milan, IL 61264800-728-3241 Fax: 309-787-8329
Contact: Mike Randoni
email: qti@quantech.comShip To: Monet
4511 N Himes
Suite 285
TAMPA, FL 33614813-870-3300 Fax: 813-870-3203
Contact: Jeff

PROJECT: Digital Image Library Charges for Monet

SALESPERSON	P.O. NUMBER	PERIOD	DISCOUNTED	F.O.B. POINT	TERMS
JHJ	MO1196	11/1/96 to 11/30/96	0.00%	N/A	Net 30

QUANTITY	DESCRIPTION			UNIT PRICE	AMOUNT
1	Storage Charges **	13.857 mb (9 files)	@ (.33/file - .13/mb)	4.77	4.77
1	Browsing Charges	622.9 minutes	@ (.98/minute)	610.49	610.49
1	OPI Charges	4 Images	@(2.60/download)	10.40	10.40
1	Orders Charges	7.6 mb (33 files)	@(6.00/file - 1.00/mb)	205.64	205.64
1	Document Transfers	1.694 mb (37 files)	@(2.00/file - 1.50/mb)	76.54	76.54
1	Image Input	1.3 mb (1 files)	@(.75/file - .50/mb)	1.40	1.40
1.00	Administration		@(150.00 per hour)	150.00	150.00
0	Miscellaneous				0.00

** Current Period Storage Summary

9	Active:	13,857,357 bytes
	Purged:	bytes
9	Total:	13,857,357 bytes

SUBTOTAL 1059.24

7.00% VAT 74.15

SHIPPING & HANDLING 0.00

TOTAL DUE \$1,133.39

Make all cheques payable to: Monet, Inc.

If you have any questions concerning this invoice, call: John Jebens, 813-870-3300

Note: Monet does not remit or collect sales tax.

THANK YOU FOR YOUR BUSINESS!

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User Interface Screen Captures

Locate

Search for:

Advanced Search: ☐

Search Criteria:

Search Results:

Search Status:

Search Log:

Locate

Climate

Climate Data:

Climate History:

Climate Settings:

Climate Status:

Climate Log:

Security

Display

Display Data:

Display History:

Display Settings:

Display Status:

Display Log:

Display

Send

Send Data:

Send History:

Send Settings:

Send Status:

Send Log:

Send

Confidential

Confidential Data:

Confidential History:

Confidential Settings:

Confidential Status:

Confidential Log:

Confidential

Reports

Report Title: Climate Data Summary Report

Report Date: 1/1/2023

Report Author: John Doe

Report Description: This report provides a summary of climate data for the month of January 2023. It includes data for temperature, humidity, and wind speed.

Parameter	Unit	Value
Temperature	°C	15.5
Humidity	%	65
Wind Speed	km/h	12

Reports

Climate Data Summary Report

Parameter	Unit	Value
Temperature	°C	15.5
Humidity	%	65
Wind Speed	km/h	12

Monet[®]

Detailed Description

Confidential - Patent Application

Detailed Description of the Preferred Embodiment

5 Referring to FIG. 1 and 5 there is illustrated a computerized digital media asset management system including a unique work order build and automated delivery system according to the present invention. The present invention includes a host system 4 comprised of one or more computers 4200,4400,4700,4600 with video display devices 4100 functioning as task specific servers as required by usage. The
10 computer system(s) at the host location 4 may be an IBM[®], IBM[®] compatible, any Intel based compatible, Digital Equipment[®] Alpha[®] based, or Alpha[®] based compatible computer. Display devices 4100, 4600a for the host computers can be any VGA CRT such as a high resolution video monitor or an LCD (liquid crystal display) panel display device 4100. The computer system(s) 3400 at image provider
15 server (hereinafter referred to as "suppliers") locations 3 may be IBM[®], IBM[®] compatible, any Intel based compatible, Digital Equipment[®] Alpha[®] based, or Alpha[®] based compatible computer. The computer(s) 2100 at the browser and client order locations (hereinafter referred to as "client") 2 may be IBM[®], IBM[®] compatible, any Intel based compatible, Digital Equipment[®] Alpha[®] based, Alpha[®] based compatible,
20 Apple Macintosh, Sun SPARC[®] or Sun compatible, or Internet appliance computer system. The present invention is developed to run on the Microsoft Windows NT[®] Server operating system at the host 4 and supplier sites 3 but can be ported to the UNIX operating system as needed. The client sites 2 can run the client software on Microsoft Windows 95[®], Windows NT[®], Windows NT[®] Workstation, and MAC OS 7.X
25 future enhancements to support Sun Solaris[®], MAC NEXT, OS/2 or any other operating system capable of running Microsoft Internet Explorer[®] or Netscape Navigator[®] will be completed in the near future. The next version of the client and browser application will be a WEB browser based application developed with Microsoft Active X[®] and JAVA compatible components. Compatibility with future
30 operating systems is also contemplated

Typical video display 4100,2200,3100 and computer manufacturers 2100,4200,4400,4700,4600,3400 are Hewlett Packard[®], IBM[®], or Compaq[®] computer. The computer systems all include a hard disk drive of varying sizes depending on the local usage and load and CD-ROM drives. A floppy disk drive is
35 also included. The hard disk drive and CD_ROM drive are preferably integral with and contained inside the respective computer systems. However, any suitable configuration of hard disk drives, CD_ROM drives, or any other mass storage device or sub-system(s) may be used 4410,4420. The CD_ROM drive may be a Sony model CDR-H93RSA and the hard disk may be any SCSI or EIDE type

manufactured by Seagate, Model Barracuda. Additional storage devices will be required at the host location for mass storage of user data and media files. A typical configuration would be a server or several servers with internal hard disks, an external RAID sub-system 4320 for buffering client data, an optical Jukebox 4420 or tape robot 4410 to store near-line media files, and a tape or optical device to serve as an immediate back-up device 4310 for operating system and transactional software. Typical examples of devices would be: a Quantum DLT 2000 digital linear tape drive for tape backup, a DISC (Document Imaging Systems Corp) D-255U Optical tape robot sub-system for client media file storage, and an nSTOR model CR8e-390T 27 gigabyte tower RAID subsystem.

To permit the data and media files to be input and moved to varying storage devices in the system, all of the server(s) at the host site 4 are networked together using any industry standard interface for local area networks (LAN). Typical examples would be connection to each server or associated workstation by a 10Base-T twisted category 5 twisted pair cable (10 megabit/sec - Ethernet 802.3 protocol). Higher bandwidth requirements can use 100Base-T (100 megabit/sec) connections or ATM (asynchronous transfer mode) at 155 megabits/sec connected with category 5 twisted pair or fiber optic connections.

To permit the supplier servers 3 to communicate with each other and the host site 4, a means of connectivity is established via wide area network connections either through dial-up 4800 or dedicated communication servers 4800 or 11,14 telecommunications lines of varying bandwidth. Examples of dial-up connections would be utilizing a phone line (POTS) with an asynchronous modem rated at 28.8 Kbps, ISDN dial-up BRI (Basic rate interface) rated at 112 Kbps or 128 Kbps, or ISDN dial-up PRI (Primary rate interface) rated at 64Kbps up to 1.536Mbps (or 1.920Mbps in Europe). Examples of dedicated connections would be a T1 link between two locations (1.5 Mbps) or fractionalized T1, Frame Relay (56Kbps to 1.5Mbps), SMDS (Switched multi-megabit data service), SONET (Synchronous optical network), point to point directional microwave, or VSAT (very small aperture satellite) linkages for direct access to interconnect facilities.

To permit the client users 2 to communicate with the host site 4 a means of connectivity is established via wide area network connections through dial-up 14 telephone communication utilizing an asynchronous modem rated at 28.8 Kbps. Connections are established either directly to the host site or through the Internet. Electronic communication occurs after the connection between the client and host have been established.

Optional hard-copy output devices may be provided at all computer locations throughout the system for the purpose of printing out local reports, work orders and administrative reports. Any supported printing device with a minimum paper handling size of 8-1/2 x 11 inches will work properly.

In the illustrated embodiment of the system 1, the user may communicate to the computer system (in 2,3,4) through data entry devices such as a standard keyboard and a pointing device such as a mouse. However, other data entry devices may be used such as speech recognition devices, and digital scanners. The term "click-on" or "clicking", as will be used hereinafter, is well known to computer users familiar with mouse devices. These terms mean particular action is taken by the computer system when the user depresses a button on the mouse while a

symbol corresponding to the position of the mouse relative to a graphical image on the video display device is shown.

The software 20,30,40 of the present invention is executed by the respective computer(s) 2,3,4 and includes a user interface 256 (client),356 (supplier),900 (host) for interacting with each respective user through the keyboard or the mouse.

Included in the host software are 4 main databases: an image database 560, an activity database 640, a configuration database 620 and a mail database 920. The databases are managed by a database manager program 46 such as Microsoft SQL server, but any suitable SQL based database management program may be used.

Referring now to FIG.1 and 2, there is shown a diagrammatic illustration of a specific embodiment of the overall structure of the software for the entire system 20,30,40. The system process has user interaction from three distinct locations in the overall wide area system 2,3,4. Each of the three operates as a separate function and usually but not always on a separate computer and usually but not always at a separate geographic location that can be anywhere in the world. The overall purpose of the present invention is to provide access to a centralized or centrally controlled and distributed database of client media files and associated data. It further provides a mechanism for authorized clients and service providers to access the central library either locally on a network, through dial-up directly as an intranet, and over the Internet via the World Wide Web. The unique features of the system are the ability for an authorized user to access and browse a client database from anywhere, search and view media files stored, retrieve various types of lower resolution representations of the original larger media files. The user then composes local documents with these lower resolution files and may include other files in the process that exist only on the users computer 2. Once completed, the user then connects back to the host system 4 through one of several means 11,14 and logs on using their account identifier 252,254. Once on the system the user can now create a work order 356 and select the files used from a local list, add files to the order that are only on the users local computer, and then direct the transmission of the entire package to a supplier site from a list of valid subscribed and available suppliers 3. The system will automatically transmit the order and local documents to the host 4. The system will then retrieve the original larger files listed in the order from the media file-system 680. Once the entire job has been gathered it will then automatically establish a connection 11,14 with the specified supplier site 3 and transmit the entire job to that location without any human intervention. All activity of the entire process from original media file entry to a job order is tracked and reported as needed. The next sections will deal with the specifics of each functional part of the system.

Each client subscribed to the system is secured from any other on the system by a unique 5 digit numeric client identification number (in this instance client represents a master corporate user of the system for storage and management of the files described throughout the media asset management process). Each client is also assigned a unique 3 digit prefix that is used to secure all media files and protect against unauthorized access to view those files. For each client of the system additional users are set up in the system administration module 90 and given user names and passwords. Users may be client systems that can browse and order 2 or supplier systems 3 that can browse, order, input and receive orders. The next step

is to determine the fixed field hierarchy in the database for each client. This is essentially the data portion that will be fixed for the purpose of search and retrieval of client media files once they are in the system. The system provides a class field with a sub-class field that is sub-keyed 623, a category key field 623 and up to ten user defined fields if needed 661. These fields will contain specific data defined by the client for the purposes of categorizing the media files that are entered into the system. Each class record can have one or many sub-class records keyed to it. Once the database fields 621,622,623 are configured for a client, the system is ready to accept files.

For clarity in the descriptive process we will use a scenario comprised of one client, two suppliers and two users. The client will be referred to as client 22222. The suppliers will be referred to as supplier "A" and supplier "B" while the users will be referred to as user "A" and user "B". Referring to FIG. 2 and 3a an image provider 30 (supplier A) copies files to folders that are configured on that system for client 22222 as directed by the client. The processing that occurs is referred to on FIG. 4a. The user (supplier A) drops file on the folder of the image provider server by using a mouse to drag and drop the files 301. The hot-folder transport system 302 takes over at this point which constantly monitors all configured folders for incoming files. The configured folders hold settings 310 that tell the system what client destination folder on the host site these new files will be sent to, the location and type of network connection (dial-up or direct) that is to be established, the service profile identifier if it is a dial-up data connection and the proper user identifier and password for access to the remote site for transmitting files. The hot-folder library and associated module are licensed from ION Publishing and integrated in to the Climate system. When files are detected in a client folder the system moves the file to a processing queue 304,306 and then compresses the file as configured. The communication portion of the computer then establishes a connection with the host site by automatically 308 dialing or sending a network request, establishes a valid communication link 11, passes the log-in information and the machine name. Once established the software begins to transmit the file. The file remains stored on the provider 3 system until it is completely transmitted and an acknowledgment is received. After all files are sent the system logs off and stores activity to the local error tracking log file. Activity of the files being transmitted is then recorded 312.

Referring to FIG 4b, the files received from supplier A system 3 are now stored in the client queue 410 and are then decompressed 422 and stored in the client incoming folder 424. The next step is to log the client file into the system and update the database. The transporter 426 moves the client file to the appropriate autologger as directed by the autolog monitor 428. The autolog server software 45 then performs the appropriate generation of low resolution files if applicable in conjunction with the lo-res server 47. Data specific to the configuration 620 of the clients specific autologger 46 performs a sequence of operations. Among the functions the autologger will perform is a preset compression value and specific type of compression performed on each valid file that passes through it. For example if TIFF (tag image file format) or CT (Scitex continuous tone files are passed to an autologger and it is preset to perform a 85 value Adobe® JPEG compatible compression, then the library providing the algorithm will be invoked and apply the

compression routine to the file and store it that way in the image file system 680. Other file formats that will allow industry standard compression to be applied are contemplated to be supported in future revisions. The file is checked for a duplicate filename 452 against the database 660 and then modified if one exists 454. The file
5 is then parsed for image information 458 if applicable, and then a thumbnail representation is generated in the form of a JPEG file that is de-resed and scaled to about one square inch in size 462. If the image is a valid type then a lo-res representation is generated 466 and the files are moved 468 to the appropriate storage device and location 680. (Optionally in certain work environments the files
10 may be also move to a separate OPI server 470 that may support output devices in a local workflow environment.) Data extracted and stored from the new file reside in the image database 660 and are organized by client and type of supplemental files created in the main file system 680 and the dates and input activity is stored in the activity database 640. Client 22222 media files are now available for access and
15 data editing by users and providers.

Referring to FIG 4d and 4e user A will log on 252 by supplying a client number (22222), a user id and password 254 to begin a browsing session. Usually the users computer 2 will establish a dial-up connection with a modem 14 to the host 4 and the session can begin. User A will select an operation from the graphic
20 interface of the Climate client software 256 and then select a search operation 260 which will invoke the search screen 270. The criteria is passed back to the host 4 and processed 510 for the matching results. Search results are composed 520 and returned to user A 270 where they can be viewed as thumbnails by clicking on the tab 262 and viewing screen 272 or textual information by clicking on the tab 264 and
25 viewing screen 274 or expanded information by further clicking 268 and screen 276 will display. User A may now select a file to retrieve the low resolution representation by clicking on the thumbnail in screen 272 and clicking the download option 268. The file will be transmitted from the host 4 image database 660 by the host server 530,540 and then log an activity event 550 stored in the activity
30 database 640 charged to client 22222 and user A for the amounts stored in the configuration database 620. User A now logs off the system and closing connect time is displayed on user A's system 2.

User A will now create a local document using, for example, Quark® Express page makeup software. Client 22222 has requested a one page brochure for this
35 example. User A launches Quark and proceeds to make a document as directed. User A inserts the low resolution copy of the file downloaded previously from the Climate system 1. Upon completion of the document user A saves the file locally on his/her machine 2. The client 22222 has directed user A to send the completed document including the original high resolution files stored on the host site 4 to
40 supplier B for disposition.

Referring to FIG 4g and 4h user A again logs on 352 by supplying a client number (22222), a user id and password 254 to begin a session 356. This time user A will select the New order 360 operation by clicking on the tab and the screen 370 will be displayed. User A fills out the appropriate information description and
45 instructions for supplier B to view on receipt. Next, user A will add images 362 by selecting the file that was used in the document and is now on user A's system by clicking on the filename. User A will click on attachments 364 to add the local

document to be sent with the order. In this case it is the Quark page previously described. After the order is complete and accurate user A will click on send order 366 and select the designated supplier B from the supplier list 376. User A will also choose the method to notify supplier B that a job has been sent and will be delivered to supplier B's computer 3. The choices are Fax or E-mail and if the certified 376 option is checked an automatic acknowledgment will be returned that the notification was successfully transmitted. After verification user A will click on send 376. The order is prepared by the software on user A's computer 20 and is sent to the host 4 Internet server 750 for processing.. The order and local file is transmitted 14 to the Internet server 750 where it is processed 760, 770 the order is parsed by the mail server 920 and is then parsed for images and directed to the destination 780. The file requested from the host file system 680 is retrieved and together with the order form and attached documents is passed to the hot folder system 786 for delivery. The hot folder server 790 then prepares the files to be transmitted with the same processing algorithm as depicted in Fig 4a 304, 306 and then chooses supplier B configuration from the configuration database 620 files are detected in a client folder. The system moves the file to a processing queue on 790 (same process as 304,306) and then compresses the file as configured. The communication portion of the computer then establishes a connection with the supplier B site 3 by automatically dialing or sending a network request, establishes a valid communication link 11, passes the log-in information and the machine name. Once established the software begins to transmit the file. The file remains stored on the host 4 system until it is completely transmitted and an acknowledgment is received. After all files are sent the system log off and store activity to the local error tracking log file. Activity of the files being transmitted is then recorded 312.

Referring to FIG 4j files arrive 80 from the host 4 on to supplier A system 3 in receive file queue 820. Files are decompressed by the hot-folder system 625 and stored to an incoming folder 830, concurrently the order form is passed to the supplier B mail account by the host mail server 75. The order form 810 can be viewed with all of the instructions as initiated by user A and printed or saved for later reference on supplier B computer 3.

Referring to FIG 4k while a client system 2 is connected to the host server 4 the user A is able to obtain specific reports on various functions of the system and then print them to a local printer 4500 if so equipped. Among the administrative functions performed at a client site are client A database maintenance 860 which allows the authorized (and edit permissioned) user A to edit various data fields for any record in the client A database and update the image database 660 at the host site 4. Security permissions of users are read only, which means they can only access data but not change it, and administrative, which means they can edit client records and change the stored date at the host site 4. If authorized, a user can perform client file maintenance 870 inclusive of marking record for removal (purge) and purging actual data and media files in the host system 4. The reports that can be generated to the video display 2200 or to an optional hard copy device 4500 are activity reporting which includes on-line browsing time 882, FIG 6 per user and client, stored file summaries 882, FIG 7 per client, new image input current period summaries 882, FIG 9, orders pending and processed 882, FIG 10, file purge reports 882, FIG 11, and invoicing for the client 884, FIG 12. Future additions of

performance, troubleshooting, and messaging 886 are contemplated. Administrative security level users can perform client administration 890 which includes creating new users or suppliers on behalf of a client 892, data structure creation and modification 892, 621, 622, 623, and autologger configuration 45.

5 Referring to FIG 4i an administrative user at the host server 4 is able to obtain specific reports on various functions of the system and then print them to a local printer 4500 if so equipped. Among the administrative functions performed at a host site 4 are client A database maintenance 930 which allows the to edit various data fields for any record in the client A database and update the image database 936.

10 New clients can be created 976 and all file maintenance to create the data structure and related user and suppliers as well as the autologging configuration. Security permissions of users can be modified 970 to administrative, which means they can edit client records and change the stored date or read only, which means data can only be viewed. The reports that can be generated to the video display 2200 or to
15 an optional hard copy device 4500 are activity reporting which includes on-line browsing time 950, FIG 6 per user and client, stored file summaries 950, FIG 7 per client, new image input current period summaries 950, FIG 9, orders pending and processed 950, FIG 10, file purge reports 882, FIG 11, and invoicing for the client 958, FIG 12. Future additions of performance, troubleshooting, and messaging
20 administration 886 are contemplated.

The recipient databases configuration 620, activity 640, and image 660 as well as the file system repository 680 all are stored in the illustrated embodiment on the hard disk 4320 or supplemental storage sub-systems 4420, 4410 (FIG 5).

25 In an alternate embodiment the client database can be distributed across multiple servers located in separate geographical areas across the country (or world). The purpose of which is to provide frequently used files and all client data at a local site for quicker access and reduce telecommunication cost. The host site 4 will maintain the entire database while only replicating 444, 314 the specific client data as configured by the administration module 90.

30 In an alternate embodiment the host site 4 can elect to provide a mirroring system for the file system 680 and the image database 640 to a remotely located facility in a separate geographic location for security purposes and disaster recovery 932, 934.

35 Specific embodiments of the method and apparatus for digital media asset management and distribution according to the invention have been described for the purpose of illustrating the manner in which the invention may be made and used. It should be understood that implementation of other variations and modifications of the invention and its various aspects will be apparent to those skilled in the art, and
40 that the invention is not limited by these specific embodiments described. It is therefore contemplated to cover by the present invention any and all modifications, variations, or equivalents that fall within the true spirit and scope of the basic underlying principles disclosed and claimed herein.

Monet[®]

Claims

Confidential - Patent Application

What is claimed is:

- 5 1. An integrated digital electronic network system for unified image and document
file storage, management, selection, work order composition and distribution of
stored files as well as locally attached files to remote servers subscribed to the
10 network either locally or through wide area telecommunications; wherein each
customer communicates from a remote site to a storage and distribution center,
the system comprising:
 - a) a central host server having
 - 15 1) an input device for building the customer data structure and
entering access codes, account numbers and assigning security
access
 - 2) display means for displaying textual and graphic information
representing the customer account data, the actual files that reside
in the system, activity reporting and storage data.
 - 20 3) memory device for storage of data in the form of records, including
customer account data, unique search structure, client account
identifier, client unique file prefix, customer stored file location, and
customer or customers service providers activity on the customers
data.
 - 25 4) communication card(s) to connect various customer or customers
service providers remote computers or servers to the host storage
and distribution center to permit communicating data, viewing the
customer file representations, retrieving versions of the customers
files, viewing usage reports, entering work orders, attaching local
30 files to be included with the work order, and forwarding the work
order and files to the distribution center host for processing and
disposition.
 - 35 5) a processor or several processors coupled to the display means,
memory device(s), and input device(s) for processing and control of
the customer data and database of files input by the remote
computers (networked or connected through various
telecommunication links), updating the customer database,
processing the image data forms and file bundles from remote
servers, processing image order forms, storing in memory the file
data, location, historical use and access information of the customer
40 files, processing customer orders of files to be sent to another
remote computer subscribed to the network, forwarding of files that
are attached to work orders to remote computers subscribed to the

network, generate monthly or on-the-fly reports of customer activity and storage, generated monthly invoices of previous reports, generated special reports for maintenance of customer data and files, process changes of customer data and removal of customer data and files no longer needed, provide secured

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- 6) login processing of valid customers and remote computers sending data and files, process synchronization of secondary customer data located on other computers either locally or connected through telecommunications links, process moving associated files inbound from other local or remote networked computers to attached memory storage devices, process comparisons of duplicate data and file entry and append identifier automatically to designate sequential duplicates of entered data and files, process administration of customer hot-folders entered on the system, process automatic connection and transmission of files for all customer hot-folders, run the hot-folder background processes, connect the security key for the software to the host processor.

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- 7) an hard copy device to print activity reports or screen data of customer information, invoices, administration reports, purge logs, customer data records, customer new image records, work order data forms, system diagnostics, and

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b) a remote or locally networked (browsing) computer having

- 1) an input device for entry of login data to customers database or customers service provider including entry of data and input of search criteria for customers related file(s), data administration (if so permissioned), entering report generation criteria, entering new data forms, and entering work order forms.
- 2) display means for displaying textual and graphic information representing the customer account data and the actual information on files that reside in the system, view enhanced views of representations of the customer files, and view activity reporting.
- 3) memory device for storage of temporary data in the form of records, including customer account data, unique search structure, client account identifier, client unique file prefix filtering routine, temporary search criteria data files, search results data files, thumbnail view files of search results, time on system, temporary update data records (if permissioned), intermediate resolution files retrieved, and telecommunication (or local network) connection data.
- 4) communication card or modem to connect remote computer to the host storage and distribution center to permit communicating data, viewing the customer file representations, retrieving versions of the customers files, viewing usage reports, entering work orders, attaching local files to be included with the work order, and forwarding the work order and files to the distribution center host for processing and disposition.

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- 5) a processor coupled to the display means, memory device(s), and input device for processing and control of the customer login data

and access to the database of files, process the search requests, process the updating of the customer database records, build and process the image data forms and image order forms, and process the forwarding of files that are attached to work orders to the host system.

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- 6) an optional hard copy device to print activity reports or screen data of customer information, work orders, and new image data forms, and

c) a remote or locally networked (supplier input server) computer having

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- 1) an input device for entry of login data to customers database or customers service provider including entry of data and input of search criteria for customers related file(s), data administration (if so permissioned), entering report generation criteria, entering and retrieving new data forms, retrieving work order forms, linking dataforms to files being sent to the host, to copy files to various hot-folders, and correcting customer data forms retrieved from the host.

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- 2) display means for displaying textual and graphic information representing the customer account data and the actual information on files that reside in the system, view retrieved data and image order forms, view previews of the files to be input, view documents passed to this system by the host, view complete documents and images retrieved from the host and view activity reporting.

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- 3) memory device for storage of temporary data in the form of records, including customer account data, unique search structure, client account identifier, client unique file prefix filtering routine, temporary search criteria data files, search results data files, thumbnail view files of search results, time on system, temporary update data records (if permissioned), temporary data form sets received from host, intermediate resolution files retrieved, high resolution files to be input, temporary post processed bundle files to be transmitted to the host, compressed intermediate files to be sent to host for input or transfer to hot-folder processing, and telecommunication (or local network) connection data.

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- 4) communication card or modem to connect remote computer to the host storage and distribution center to permit communicating data, viewing the customer file representations, retrieving versions of the customers files, viewing usage reports, entering work orders, attaching local files to be included with the work order, forwarding work orders and files to the host for distribution, forwarding processed file bundles to the host for processing and disposition, forwarding hot-folder file transfers, and receiving hot-folder file transfers.

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- 5) a processor coupled to the display means, memory device(s), and input device for processing and control of the customer login data and access to the database of files, process the search requests, process the updating of the customer database records, build and

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process the image data forms and image order forms, process the forwarding of files that are attached to work orders to the host system, process image record linkages, process compression requests, process lo-res file requests, extract data from processed files, run lossless compression on document files, process both immediate and timed delay transfer requests to host.

6) an optional hard copy device to print activity reports or screen data of customer information, work orders, new image data forms, and processed data logs, and

d) one or many communication links coupling the customer and service provider access computer(s) to the host storage and distribution center to permit communication of the customer search and order software, to permit routing of files to and from hot-folder computers, and to provide communication of the service provider servers inputting files in to the host system on the customers behalf.

Claims Summary:

- 1) An integrated customizable network system for image storage, management, and distribution.
- 2) Client specific (protected) access (login) on a network
- 3) Comprehensive file management information system
- 4) Fully automated computer order and document passing mechanism
- 5) Automated workflow utilizing application specific servers
- 6) Integrated image file compression and storage processor
- 7) Customizable independent and scaleable information workflow
- 8) Un-restricted hot-folder and data transfer bandwidth, and communication connectivity in conjunction with everything else

Monet[®]

Applicability

Monet White Paper

Confidential - Patent Application

Applicability of the Invention

RE: CLIMATE VERSION 2.5 WHITE PAPER
Date: March 6, 1997
Contact: John H. Jebens

Climate Version 2.5 Image Management and Distribution Software

Monet is announcing the next major release of its client image management and distribution software solution for image-intensive businesses, as well as print industry service providers.

Monet provides the software under the CLIMATE (Client Image Management and Telecommunications) trade name. Integration and consulting services are provided by Monet for turnkey installations. CLIMATE is also offered as a service through Monet's facilities in Tampa, reducing the investment of costly in-house computer systems, disk storage, archiving, and telecommunications hardware. Additionally, staffing needs for system and telecommunications specialists are reduced significantly or eliminated. The CLIMATE solution is targeted toward businesses who need to control and distribute their digital assets or wish to provide these services to their clients. A key feature of the CLIMATE software is its open, wide area connectivity, enabling clients from around the world to communicate, manage, and deliver digital assets. Although primarily an Intranet, version 2.5 will enable Internet access as an option.

The "Alliance Partner" network of CLIMATE providers has created a unique pool of other resources (such as Indigo or large format output, specialized or emergency pre-press services, etc.) located in strategic geographic cities around the US and Canada. By becoming an "Alliance Partner", a client or service provider has the option of starting with CLIMATE as a

service and up-grading to a host site at a later time. All digital files and data are seamlessly migrated by Monet at the time an upgrade occurs. A list of new features in version 2.5 is listed on the following page.

CLIMATE VERSION 2.5 NEW FEATURES

- 5 • Completely new optimized browser including librarian-determined remote data editing
- Improved work order builder drag and drop interface with system validation
- Enhanced and more scaleable communications gateway providing network response and view over conventional modem connections
- 10 • PC, MAC, Internet access capability via WEB based client
- Work-In-Process (WIP) identification on all browser and download activities allowing reports generated to identify not only the client who accessed the system, but what job to charge against
- Wide area Auto-logging for mass input and data correction at a later time
- 15 • Project Builder for parent-child file relationship
- Selectable decompression or retain compression upon hi-res delivery
- JPEG RGB lo-res generation choice for multimedia Internet applications
- Independent OPI server choice at host site installations allowing complete compatibility and adaptability to existing workflows
- 20 • New host site administrative functions including media-type designation or physical media copy for distribution

CLIMATE VERSION 2.5 WORKFLOW

- Monet CLIMATE system activity is totally controlled by the Monet customer. Generally a
- 25 client or representing agency initiates all new orders for image input, whether it is scanned or existing digital, and fills out electronic data forms which are then processed by CLIMATE. In version 2.5 this function now resides at the supplier sites as well, for those service providers offering data management services. Images or documents are linked to these data forms, placed in service provider queues, and automatically routed to the service provider, remote or
- 30 local. The connections can be dial-up or fixed, Basic ISDN, PRI-ISDN, SMDS, Frame Relay,

T1 or ATM/OC-3 if supported. CLIMATE processes and stores the images/documents and makes the data available for browsing and multi-type lo-res retrieval as determined by the librarian. All documents and images may be retrieved to the desktop. Hi-res files can now be permissioned for desktop retrieval over modem lines where hi-speed data connections are
5 unavailable.

Work orders for processing occur in the same manner (images or documents already on the system). A client builds the work order after browsing or downloading OPI images for placement in a document. Additionally, the page makeup or other document(s) can be transmitted to the particular service provider (or an NT remote server designated only for hot-
10 foldering). Once images and any associated documents are selected, the job is sent to CLIMATE for distribution. The order is then routed for retrieval by the appropriate service provider. CLIMATE provides monthly reporting of activity and billing for clients. The reports include details of file storage usage and any of their subscribed users' and service providers' activity. Version 2.5 adds the work-in-process feature. Reports can be customized
15 beyond the standard formats.

SYSTEM DESCRIPTION

The CLIMATE system is based upon an integrated distributed client/server web with wide area interconnection at two levels; image browsing and file transportation. Monet's CLIMATE system now features an enhanced communication gateway front end as well as the server-based
20 file delivery processing for the print industry. Flexible telecommunications and network connectivity make CLIMATE adaptable to any demand requirements by its users.

The total system solution is comprised of a data repository for digital assets, variable bandwidth telecommunications, 3 tiered image resolution, firewall security, complete image management and control, comprehensive activity reports at client site, and graphic arts
25 knowledgeable support. Image browsing is handled over conventional dial-up telephone or ISDN lines with standard computer hardware, currently Macintosh and now in version 2.5 Windows 95 or NT on the PC. Monet software additions optimizes communication speed for file downloads and thumbnail image searching.

File transportation is handled by a communications server that is located at either a customer site and/or service provider sites and allows distributed file processing, retrieval, and communications handling. Functionality of the communications server is tailored to the Graphic Arts clients' needs and/or to their customers or suppliers, i.e. specific file format

5 translations and communications connections. The ability to convert various file formats allows efficient re-purposing of image data for intermedia applications, including de-centralized on-demand printing. The growth of the "Alliance Partner Network" now provides additional sources for on-demand output of various flavors.

Monet incorporates the Windows NT server operating system. Process functions that handle
10 communications, image processing, variable compression, file translation, file transmission, and reporting are divided up among three core servers that are task-specific. File translation and order processing are distributed over the wide area as a function of the number of active communication servers that are subscribed to the system. The distribution stabilizes average throughput of the system and virtually eliminates I/O overload. Monet keeps track of the data
15 through an SQL driven database that provides links to the image library. This method enables the system to maintain an independent file structure for all image files and track variable compression ratios that are client-defined for those files it applies to, independent of the overall system. All non-image files are compressed losslessly.

Monet utilizes a licensed software engine as the core low resolution file generator. As new file
20 formats are supported they will automatically be supported within Climate. In version 2.5 a host installation can elect to use whatever OPI server they desire. We understand that everyone has a preference when it comes to OPI servers and in many cases it is an operating system issue. The system maintains a tiered file system for browsing, TIFF, RGB JPEG and standard hi-res read only image. All files archived to the system are never modified, thus
25 insuring integrity of the compressed file structure at any ratio. However, configuration changes can be made to allow updating as opposed to new file entry. Any duplicate files accidentally entered into the system are automatically appended with a filename suffix to denote such errors, thus eliminating possible overwrites. Files that would need revision are saved as a new file, and the client librarian would determine the need to purge any older
30 versions. Another feature of the storage system is the thumbnail and low-res generation.

Occasionally a file may be corrupted in the generation process, therefore CLIMATE provides a preview capability as the images are processed to check against file degradation. These files are what the user sees upon browsing or low-res download. If a file was corrupted, the low-res files will show the fault, thus, the view files are a verification of the image library integrity.

- 5 This feature is configurable and thus if speed is an issue it can be disabled. The Monet processor module performs all of these tasks in the communication server prior to passing files and data to the main server for input into the library.

- 10 Image File formats currently supported for variable JPEG compression are TIFF, and Scitex CT. All image formats are supported for lossless compression within the system as well as any other type of document file. The CLIMATE system also allows a user to group elements into a job for storage on the system or build projects that create links between records. Monet is looking toward TIFF/IT and PDF and (single part JPEG/DCS for print) as the long range standards. The phase III (version 3) implementation of CLIMATE will support distributed database communication, site mirroring, remote and partial synchronization, remote archiving
15 and integrated communication with other installed databases.

- Communication services are being offered initially over Basic Rate ISDN with other bandwidths and media types as they become regionally available. Because Climate does not rely on any one medium it is totally scaleable as demands increase. Monet has improved its communication handler for passage of secured data between subscriber points. This "bundler"
20 handles all of the pre- packaging by losslessly compressing the files and then automatically transmitting them to the server. If a connection fails the files are preserved at the initiating end and will be re-sent once the connection is back. Acknowledgment from the host server tells the remote end the files were received successfully. Supplier communication servers initiate all inbound and outbound data traffic. CLIMATE handles only requests and processes data
25 with its intelligent processing server as the system entry point. This approach allows the subscriber to take advantage of communications economies and provides for secure connections. Server hot-folding can be configured to any server on the Climate Intranet, independent of the host site.

CONCLUSION

This entire process is easily viewed and managed from the desktop, providing seamless, cost effective, instant digital delivery of corporate-wide communications at significant savings over courier-based operations. Monet offers CLIMATE services to the Graphic Arts trade on a

- 5 Host OEM basis for those who would prefer to maintain control of their existing accounts' Digital Assets. Monet's beta systems are currently operational at its Tampa facility, Midland MI, Milan IL, and Boston MA. True open architecture, scalability, automated order processing, and extensive customizable reporting make CLIMATE the best media asset environment available whether the need is in-house or as a third party out-source. Pricing for
- 10 the software and service is based on system size and anticipated subscriber requirements. Pricing and sample configurations are available upon request under non-disclosure.

Monet[®]

Applicability

Monet Uniqueness

Confidential - Patent Application

Applicability of the Invention - Market Differences From Prior Art

5 RE: The Monet Market Concept
Date: December 6, 1996
Contact: John H. Jebens

10 The Monet Concept of Digital Media Asset Management Q&A on issues regarding client needs

As with any new product and service offering there is always going to be a flood of related
"competitive products". The problem becomes, "Why should I choose one product or service
15 over another?". Usually this is relatively easily resolved by running benchmarks or performing
a feature analysis to reduce the list of likely choices. Although this works well when one is
analyzing off-the-shelf products and services, it fails miserably when one is analyzing an entire
new technology and work flow. You may ask how this can be considered a new technology?
Digital files and electronic publishing have been around now for a decade. Digital
20 telecommunications has been in use far longer. Compuserve pioneered the concept of wide
area access and centralized storage (at least in appearance). So what is different here when we
have a company offering software that provides a complete solution to centralized storage and
wide area access via digital telecommunication?

The difference is that "this is not about technology!" It is about a completely new way of
25 doing business. Monet and the Climate system represent the last frontier facing any large
corporate client, printer, pre-press, new media, Internet content provider, CD publishing
house, or digital motion picture distributor. The entire way the future of print and electronic
publishing is moving is analogous to the growth of the Internet. That direction is completely
electronic encompassing communication, storage, and automated distribution. Therefore, the

problem to solve here is not only one of technology, although technology is at the core of the eventual solution. Given the above general statements, let's explore some questions asked by current and prospective clients.

What is the most crucial aspect of building a centralized library?

- 5 Obviously there are many, but the single most important element that makes a library usable is how well planned the data structure surrounding it's objects are. This is not just a database. The database is the mechanism that links to the image files, documents or any other piece of data to be catalogued. Monet and it's alliance partners spend a tremendous amount of time helping determine the optimal method and hierarchy of the data set before anything is ever
10 entered in the system. In a sense you are designing a card catalog system for the objects to be stored. Don't get caught up in exotic search capabilities which are emphasized as the strength of some products. Simplified elemental searches are the ones that are used in 95% of queries by most users. Remember that the initial purpose here is to get a job built, not to do research.

Why is Monet different than other database products?

- 15 Monet treats the database as the core piece of input and output operations. It is only a piece of the entire system. By keeping an open, scaleable methodology, the system can be enhanced without the risk of re-building an entire library. The Monet database is SQL driven (SQL - Structured Query Language is the largest standard for complex database design, ie Oracle, Sybase, Microsoft are SQL engines). The jury is out on whether embedded object or pointer
20 (like SQL) technology is best. We feel that the database is the heart of the entire system. A 2 terabyte archive in an embedded environment is 2 terabytes. In a SQL pointer world the database may only be a few hundred megabytes and the rest are the object files. From a recovery standpoint in the event of a disaster, the latter can be restored more quickly.

What makes Monet different than other SQL based products?

- 25 Reporting and tracking. Our focus is on working with the people who really are in charge of producing the output. A big oversight on the part of many shrink-wrap products is that they put too much emphasis on the search interface. Monet tracks activity much like a legal time and billing system. Any advertising agency, designer, or in-house corporate artist is always working on a job or specific budget item. We allow any event to be tracked to that level
30 whether it is browsing or input/output activity. The system needs to be "workflow friendly".

Why did Monet not initially come out with Internet availability?

- Our position on the Internet parallels much of what Bob Metcalfe (the inventor of Ethernet and network pioneer) has been saying for the last year or so. The Internet is a wonderful research tool but it is not well suited for distribution of large mission critical files. Remember that in an
35 Intranet (like we prefer) environment you control the destiny and bandwidth of how your files move. In the Internet you have no control whatsoever. If a 40 megabyte file goes out on a 1.5

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megabit pipe, but hits a bottleneck that reduces it to say, 128 kilobits, the time to transmit will increase ten-fold. Another paramount issue is the new pricing that is inevitable. The life span for unlimited dial-up access for \$19.95 monthly is questionable. Keep in mind that somewhere in the back end there has to be the capacity to keep all this data moving as users crowd the Internet. Somebody will pay for it. Guess who? Monet is adding Internet access to the next release. The users can have a choice. Large file solutions can't ever totally rely on the Internet as the only access point to our system.

What is Monet's hot-folding approach?

Hot-folder transferring is a great concept. Essentially, Hot-folding is a method of having directories or folders on a server that automatically route files to some defined destination when a person copies or moves a file into that folder. The destination may be in another state or country. The telecommunication is handled by the software. Monet's application for this is much longer term than other products in the sense that it is not tied to any one communication technology. Although we primarily install Basic Rate ISDN, our system can scale up to bandwidths of ATM levels if needed. We support both dial-up and network connections. Other products are either tied to a board (like 4-Sight) which limits bandwidth or are proprietary (like WAMNET) which limits your control and cost structure. Monet offers it's hot-folder technology as a stand alone option as well.

What about other bulletin board systems like Adobe Virtual network or CE Quickmail, don't they provide similar functionality?

Not at all. First, we are not a bulletin board or an e-mail system. We choose to use industry standard products for that. Although we have messaging built within, we would always recommend that a company maintain whatever form of e-mail they have adopted. We can interface as needed to other e-mail systems. As for bulletin boards, that is a completely separate application which is quickly being supplanted by the Internet and company home-pages or FTP sites. Again a bridge can be built as necessary.

Is there a limitation to the type of files your system can handle?

No. The system currently supports anything you want to put into it. We only generate previews for certain file types but that is a modular piece of the engine. If you really want a preview of a certain file type it can be added. If the system doesn't recognize it, then it simply displays an icon that says "no preview available". Ultimately this can include sound bites and motion files. Monet does not put an emphasis on this in the beginning because it is very bleeding edge and the market is in early stages of development. Formats are still an issue and most of our focus is toward the digital printed world. This aspect will evolve as the standards are set.

How does the Monet system handle compression?

Compression is up to the client librarian. Monet offers a built-in Adobe Photoshop compatible

JPEG for certain file types. The user can pre-compress a file any way they desire. It is simply a matter of if the program can generate a preview on input or not. Any documents or other file types can compress losslessly with LZW for space conservation. Monet is partnering with several companies that specialize in sophisticated compression technology for future enhancements.

What about re-purposing of data objects within Monet?

Re-purposing is one of the paradigm shift terms that is overused and largely misunderstood. First, Monet offers several fixed low-res formats. Our next release will expand that offering to generate some on the fly options or variations of the original file. In an ideal world one would want a 1:0.75 aspect RGB from a 5X7 JPEG hi-res file stored in the system. The problem is that the aspect of the 5X7 is 0.71:1. It is doubtful any artist will trust a translation engine to decide what data to crop off. The other issues are color shift, bit loss, etc. Monet's position is to let the creative people who build these files also control them. We are a long ways from intelligent translation engines that indeed "re-purpose". They don't exist today largely because the reality is that certain files created for print do not as an example, re-purpose to full motion video. However, Monet's modular approach will allow us to interface or plug-in the technology when it becomes reality.

Can Monet interface with other databases?

Absolutely. Today we have to write a custom interface, however, because of our ODBC compliance others can extract data if permissioned (ODBC is an industry standard for communicating with different types of databases). In the future we intend to offer bridging modules to connect to other popular image databases that survive the next phase of graphic arts shrink-wrap wars.

What is the Monet Alliance Partner Program?

The "Alliance Partner Concept" network of CLIMATE provides the resources to evaluate and implement our solution. It is typically a unique pool of other resources as well (such as Indigo, or large format output, specialized, or application specific pre-publishing services, etc.) located in strategic geographic cities around the US and Canada. By becoming an "Alliance Partner", a client or service provider has the option of starting with CLIMATE as a service and up-grading to a host site as driven by demand and size.

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Prior Art

Confidential - Patent Application

Prior Art Companies and Short Descriptions of Products

- 5 **Archetype Inc. - MediaBank** is an image database built around DBF standards. It can be connected on a wide area basis but is primarily sold as a shrink wrap database. Archetype offers OPI server and output management software as well.

- 10 **Luminous Media Manager** is the database offering. an Adobe company offering a variety of individual pre-press workflow products. Adobe Virtual Network, Trapwise , Presswise, Color Central OPI.

Bulldog Group offers an object oriented image database

Cascade MediaSphere is a UNIX based database and OPI server

Dalim - primarily workflow tools but has an image database that integrates with their OPI server and workflow manager. Targeted at printers primarily

- 15 **EDS - MediaVault** primarily an object image database. Provides low res proxies but not much for workflow.

MediaWay is an object database

Schawk - Click primarily a routing and bulletin board like system, not a database.

- 20 **AGT - Digital Link** product offering group - offers full pre-press and related services. I believe they have a database of their own developed in-house.

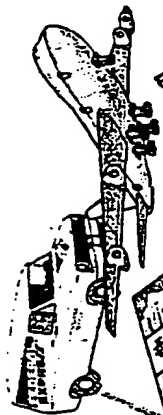
Alaras - Tropix image database oriented to workflow issues.

4Sight - ISDN Manager is a hot-folding system. This is the leader in the market for off the shelf hot-folder hardware and software in a bundle.

Refer to the copy of Media Asset Management for additional info.

Traditional Fulfillment Scenario

Jim "calmly" begins to coordinate finding the original file which appears to have been misplaced. He will reluctantly ask for a copy of the transparency to re-scan.



After a staff person at Amana finds the original copy of the transparency, it is duplicated and sent overnight to a sep-house in Phoenix used by Color Graphics to be re-scanned.

2

When the transparency has been re-scanned it will be transferred to a magnetic disk, CD, or tape to be sent to Africa.

3

Amana staff search for the transparency and have it duplicated for re-scanning.

1



The cartridge is sent overnight to the Amana Office in Africa

4

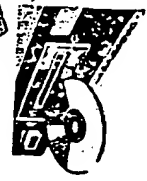
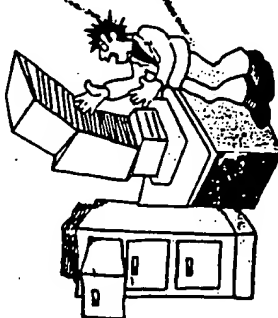
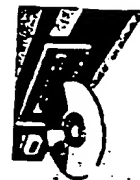
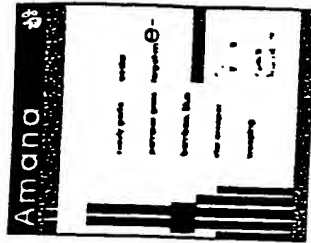
The cartridge is loaded on the system for final preparation

5

Possible corrupt file or wrong file sent can cause even further delays and start the process over.

6

After arrival of the image and re-loading from cartridge, copy is prepared for final proof. (6 days later)



Monet Fulfillment Scenario

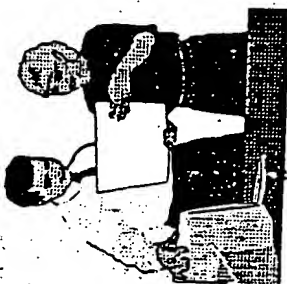
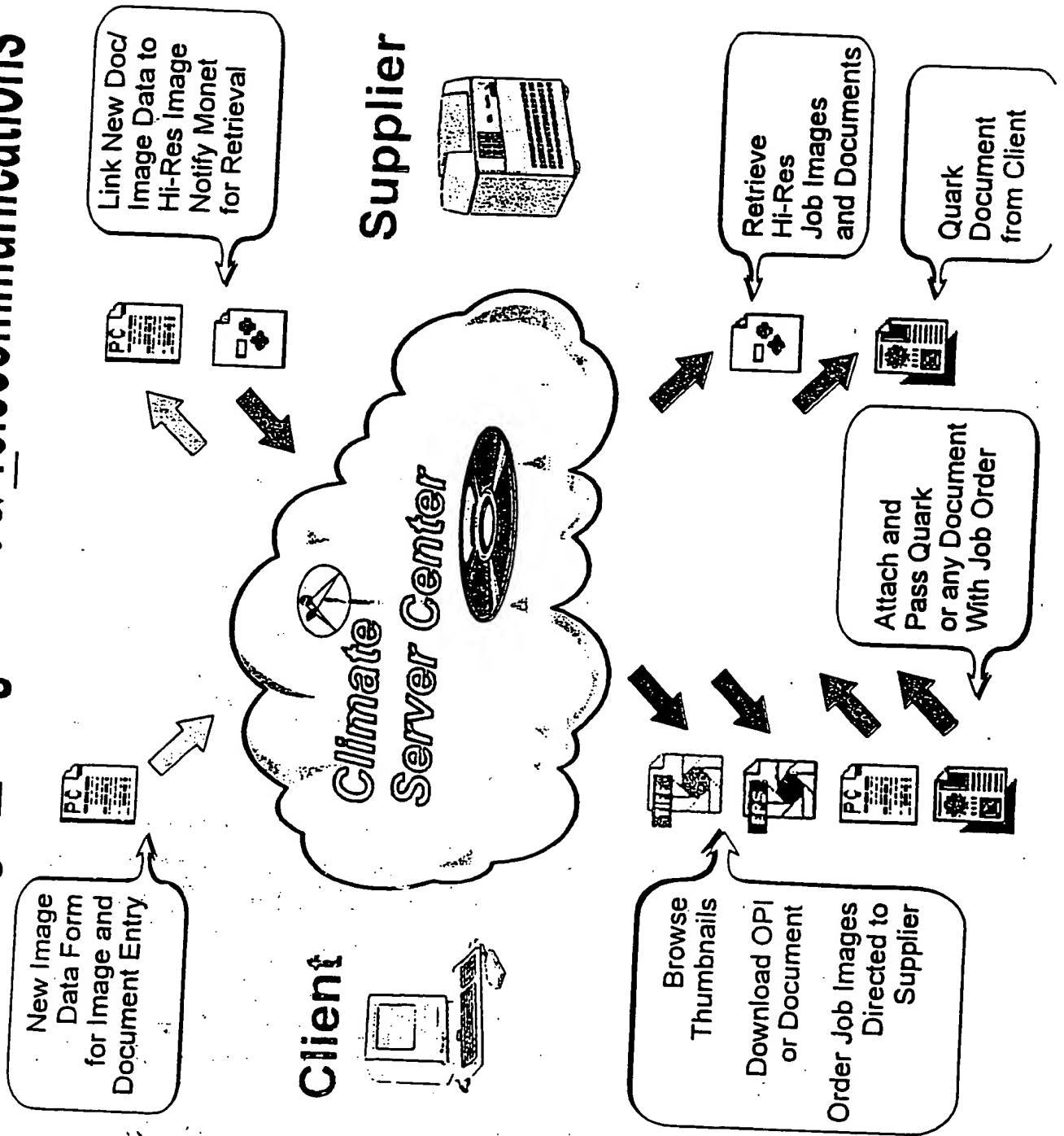


Image is delivered electronically to Amana office in Johannesburg and inserted in brochure (1 day total)

Amana	
daily gate	0000
service gate	0000-00
service gate	0000-00
100 counter	0000
receiving	0000



Client Image Management & Telecommunications



**HEY!
ARE YOU
LOOKING FOR
AN EASIER WAY
TO FIND THE
DIGITAL ASSETS
YOU NEED-FAST?**



Images or documents available
anywhere, anytime, in any format.

Once your images or documents are archived on the CLIMATE Network, they can be called up for browsing by anyone whom you have authorized and equipped with a phone modem. Twenty-four hour access makes it easy for designated agencies, printers, and communicators all over the world to locate the images or documents they need and to compose documents or print low resolution files for immediate use. Clients and service providers can view, browse, and print low res images, simultaneously, at multiple locations, while maintaining the consistency and security of your high resolution files.

And once your images or documents are in the system, they can easily be adapted for a wide variety of applications, such as animation, large format printing, and multimedia presentations.

All this—without the time and expense of re-shooting, re-scanning, and re-working images which have already been digitally re-touched or color corrected.

The latest technology for a wide
range of users.

CLIMATE offers a simple menu-driven interface that allows users to locate archived images or documents with key words or catalog numbers. Anyone with a CLIMATE modem, software and a regular phone line can access your library, and high volume users can access it with ISDN lines. Our advanced NT Client Server is both MAC and PC compatible, and it is designed to maintain long-term compatibility with a wide range of current and future digital file types.

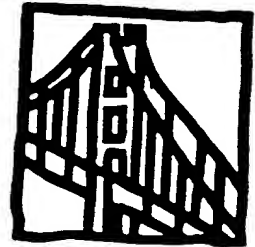


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MBNET LOGIN

Name:

Password:

Ok Cancel

Search

☒ Monet ID:

☐ Image Title:

☐ Classification:

☐ Sub-classification:

☒ Image Code:

☐ Comment:

☐ Image Format:






☐ Category:






Matches: 0

Search Show Cancel

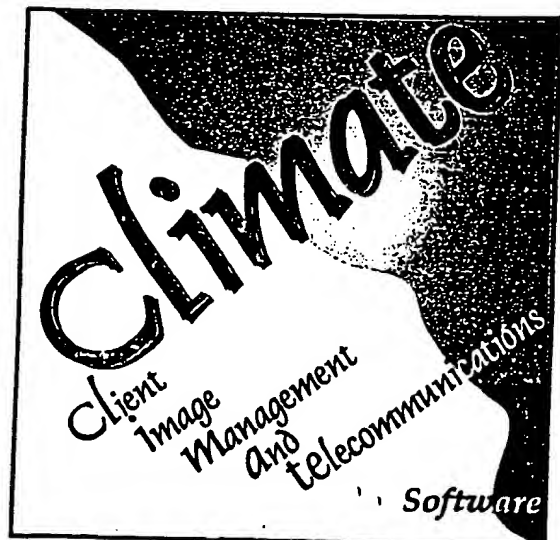
☐ View Images ☒ View Filenames

View Images

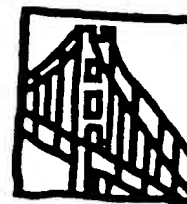
    

Search Done



**Images or Documents available
anywhere, anytime, in any for-
mat.**



SEYBOLD
SAN FRANCISCO

Once your images or documents are archived on the CLIMATE Network, they can be called up for browsing by anyone whom you have authorized and equipped with a phone modem. Twenty-four hour access makes it easy for designated agencies, printers, and communicators all over the world to locate the images or documents they need and to compose documents or print low resolution files for immediate use. Clients and service providers can view, browse, and print low-res images, simultaneously, at multiple locations, while maintaining the consistency and security of your high resolution files.

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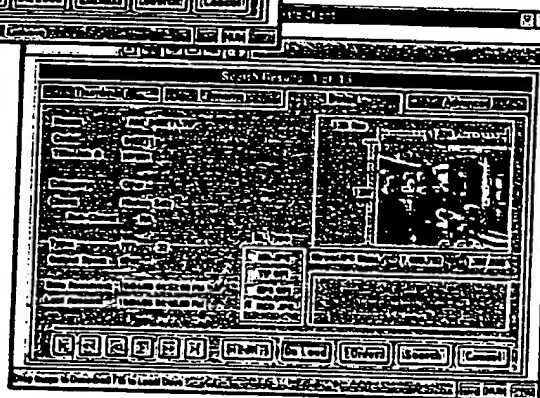
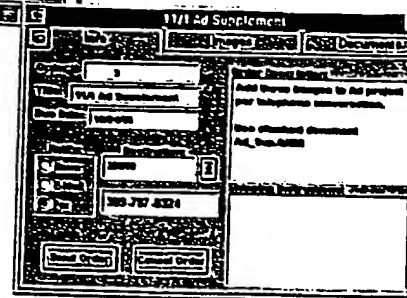
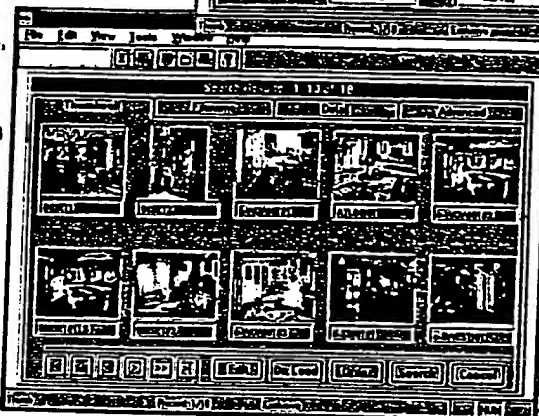
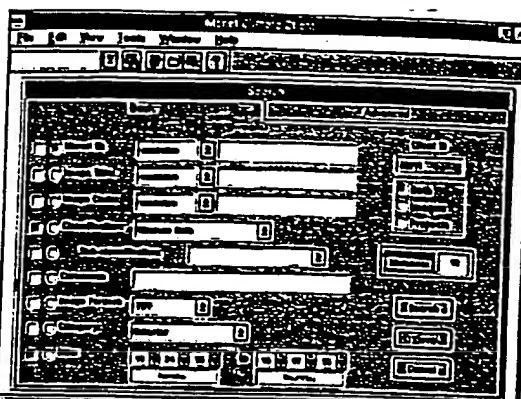


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Management & Activity Reporting

24-Oct-86

React Tests (hours)

@ Quite Image Browsing Activity Log

Client ID: 70011

Powers

Generating Transactions: 80.75 per min.

52.50 per CPU DL

100000 - 100000

(Reference 0)

Client	Source	A.T. Source	CP: 70011	Duration (min)	TI (Min)	CPYs (Min)	Total
700000	70000 00171 A	0	10 17.20 sec	0.20	0	0	0.20
700000	70000 00471 A	0	2 40.70 sec	1.00	0	0	1.00
700000	70000 00571 A	0	0 07.00 sec	1.00	0	0	1.00
700000	70000 00111 A	0	00 34.00 sec	0.00	0	0	0.00
700000	70000 01001 A	0	0 36.10 sec	1.70	0	1	1.70
700000	70000 01020 A	0	1 00 10.00 sec	00.10	0	0	00.10
700000	70000 01030 A	0	01 17.00 sec	12.00	13	0	00.10
700000	70000 01040 A	0	00 20.00 sec	00.00	0	0	00.00
700000	70000 01050 A	0	00 12.00 sec	1.00	0	1	1.00
700000	70000 01060 A	0	1 00 10.00 sec	0.00	0	1	0.00
700000	70000 01070 A	0	01 10.00 sec	20.00	20	2	20.20
700000	70000 01080 A	0	0 12.00 sec	1.00	0	1	1.00
700000	70000 01090 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01100 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01110 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01120 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01130 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01140 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01150 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01160 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01170 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01180 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01190 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01200 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01210 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01220 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01230 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01240 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01250 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01260 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01270 A	0	0 10.00 sec	20.00	20	2	20.20
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700000	70000 01310 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01320 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01330 A	0	0 10.00 sec	20.00	20	2	20.20
700000	70000 01340 A	0	0 10.00 sec	20.00	20	2	20.20
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